

WELCOME

HIGHBAY OPTIONS

PROS & CONS

October 25, 2012 Webinar

- Not all light sources make sense in every application.
- Some of the best and most efficient light sources will not yield an ROI.
- A one for one swap is not always the best solution.
- Have a before and after layout before making your decision.
- Have you considered all your options?

T5 HighBays - SKFHBLT56 vs. 400W MH

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	30.3 fc	35.2 fc	26.8 fc	1.3:1	1.1:1

LUMINAIRE SCHEDULE

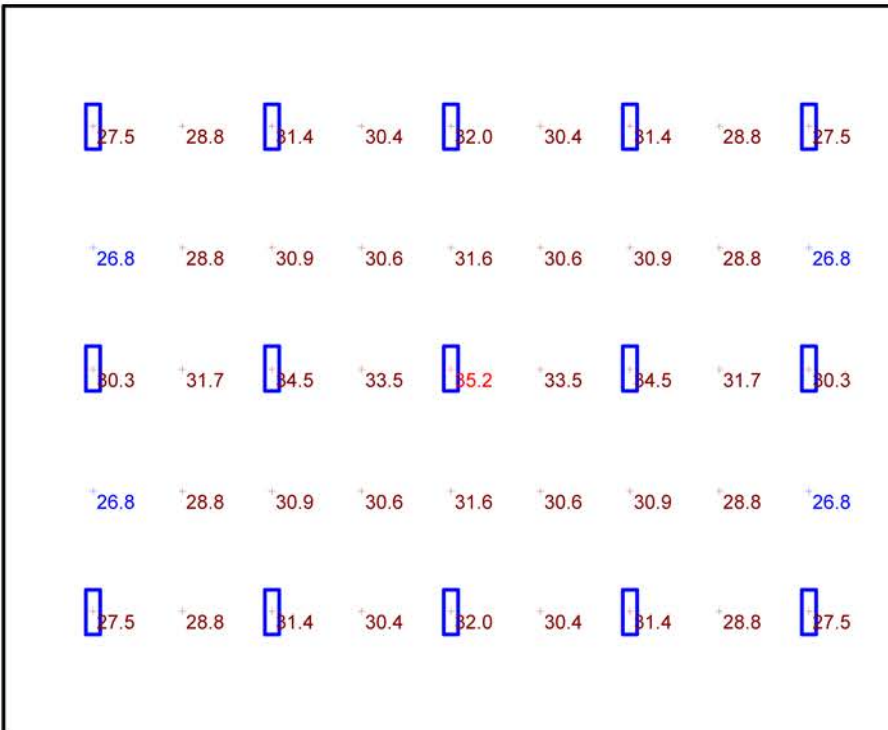
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
□	LM-1	15	SKFHBLT56+F54T5HO/841	Formed white enamel steel housing, formed specular aluminum reflector, no enclosure	Six horizontal 54 watt T5HO linear fluorescent lamps rated at 4400 lumens each	IESfile_SKFHBLT56.IES	4400	0.64	302

STATISTICS

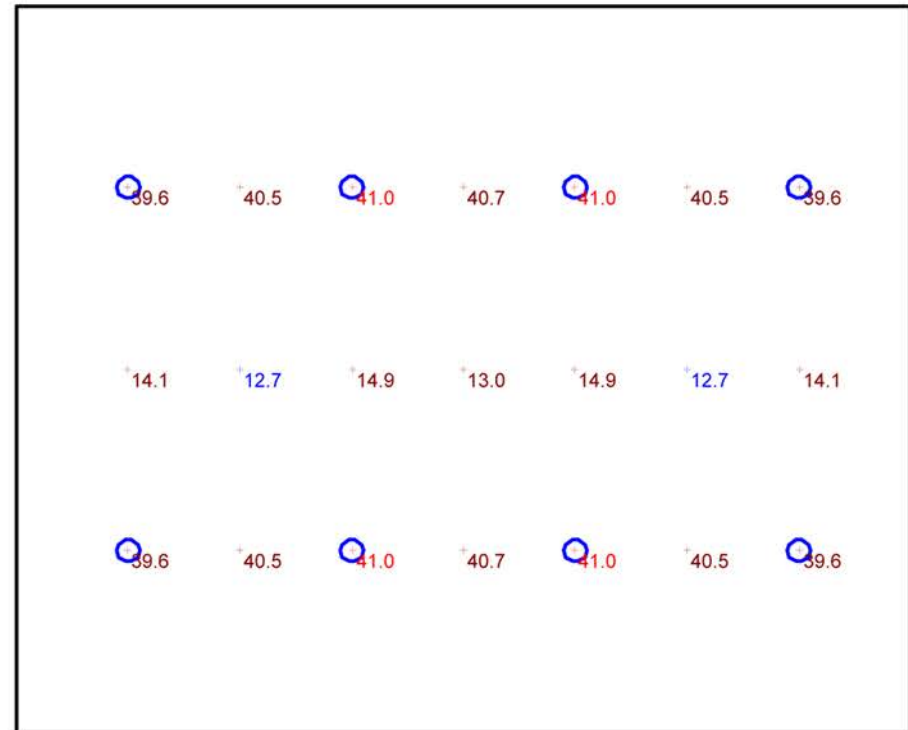
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	31.5 fc	41.0 fc	12.7 fc	3.2:1	2.5:1

LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
○	LM-1	8	TH 400M PA22 (LEG 12,SC= 1.1)	OPEN ACRYLIC OPTICAL, 400 MH	ONE 400-WATT COATED BT-37 METAL HALIDE, VERTICAL BASE-UP POSITION.	TH_400M_PA22_(LEG_12,SC=1.1).ies	36000	0.72	458

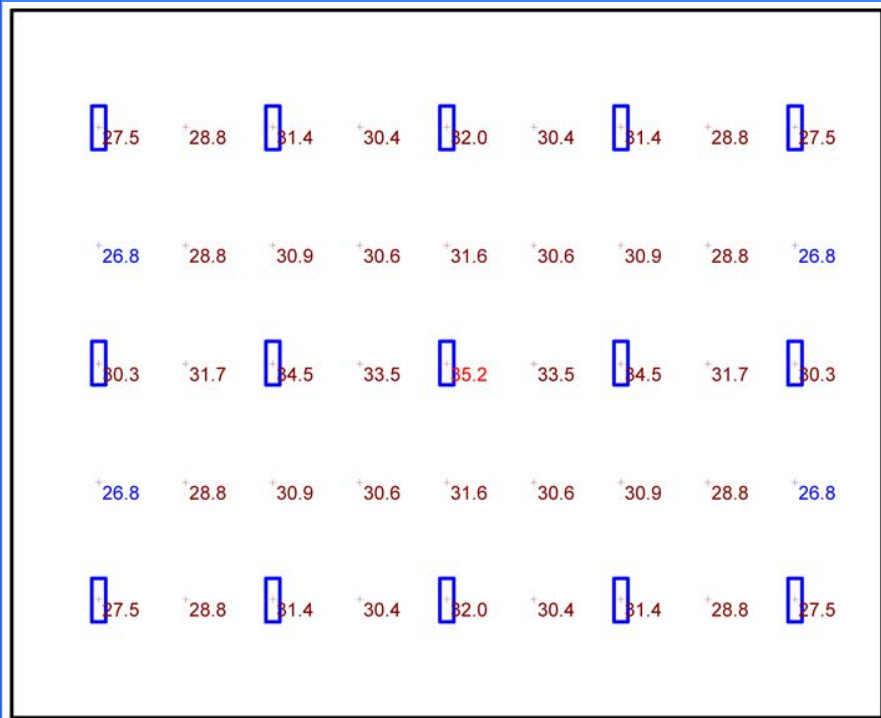


Plan View
Scale 1" = 16'

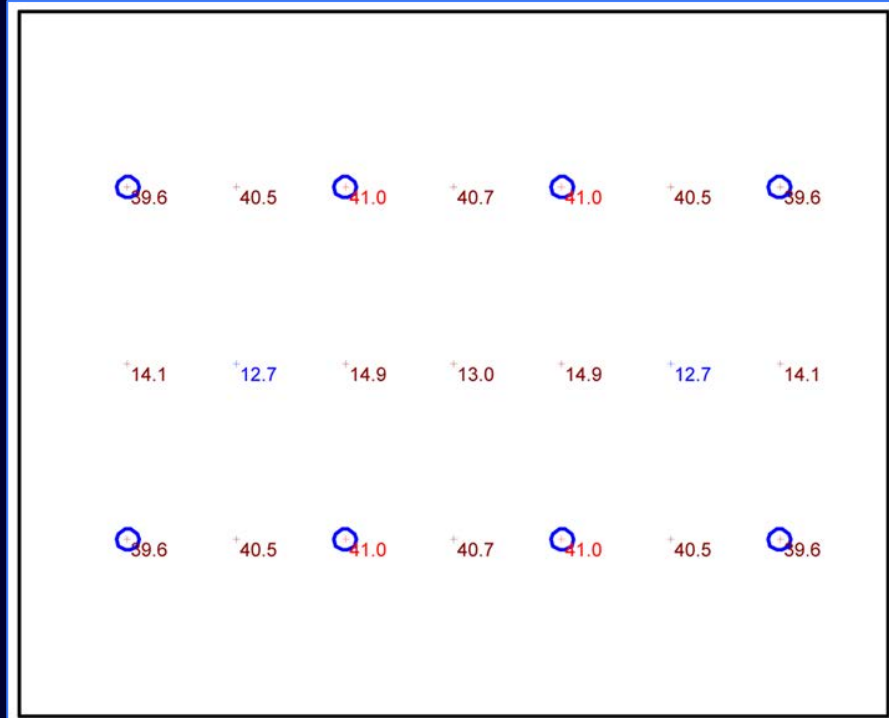


Plan View
Scale 1" = 16'

T5 HighBays - SKFHBLT56 ROI Calculations



Plan View
Scale 1" = 16'



Plan View
Scale 1" = 16'

T5 6 Lamp HighBay

Base Line of 8 fixtures 400W MH	Old Wattage 458	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 5.28	Cost Per week \$ 36.93	Cost per Month \$ 160.04	Cost Per Year \$ 1,920.52	
SKFHBLT56	New Wattage 302	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 6.52	Cost Per week \$ 45.66	Cost per Month \$ 197.87	Cost Per Year \$ 2,374.44	
	QTY RETROFITTED 15				Savings Per Day \$ (1.25)	Savings Per Week \$ (8.73)	Savings Per Month \$ (37.83)	Savings per year \$ (453.92)	Percentage Savings -24%

Cost Ea	Total Cost	Total Cost per project	ROI In Months	ROI In Years
SKFHBLT56 \$ 140.00	\$ 2,100.00	\$ 2,100.00	-55.5	-4.6

	Savings over 50,000 Hours \$ (5,196.00)
SKFHBLT56	Cost of Power over 50,000 Hours \$ 27,180.00
400W MH	Cost of Power over 50,000 Hours \$ 21,984.00

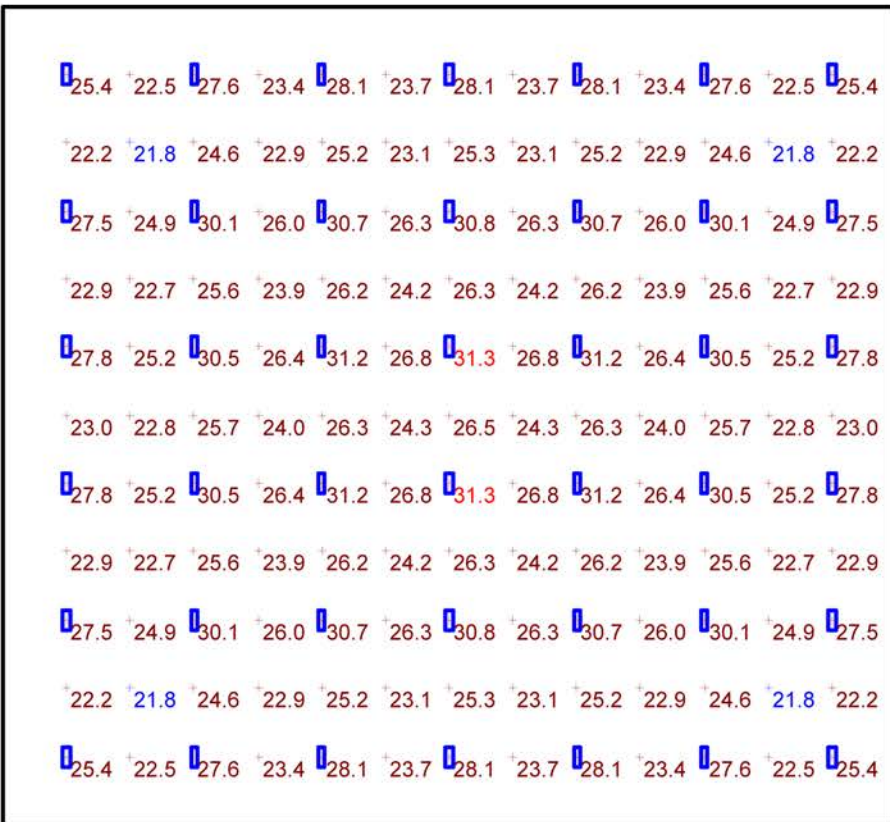
* Estimated up-front LED premium paid per fixture without discounts or utility rebates.

T5 HighBays - SKFHBLT56 vs. 400W MH (Alternate)



STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	25.7 fc	31.3 fc	21.8 fc	1.4:1	1.2:1

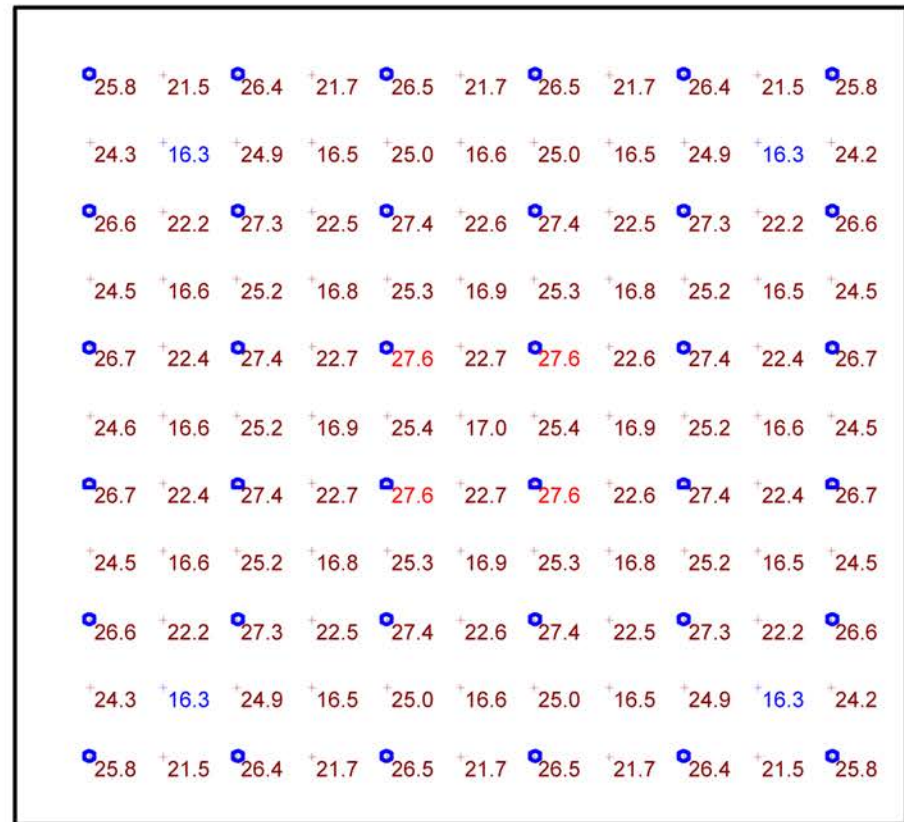
LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
□	LM-1	42	SKFHBLT56+F54T5HO/B41	Formed white enamel steel housing, formed specular aluminum reflector, no enclosure	Six horizontal 54 watt T5HO linear fluorescent lamps rated at 4400 lumens each	SKFHBLT56.IE.S	4400	0.96	302



Plan View
Scale 1" = 40'

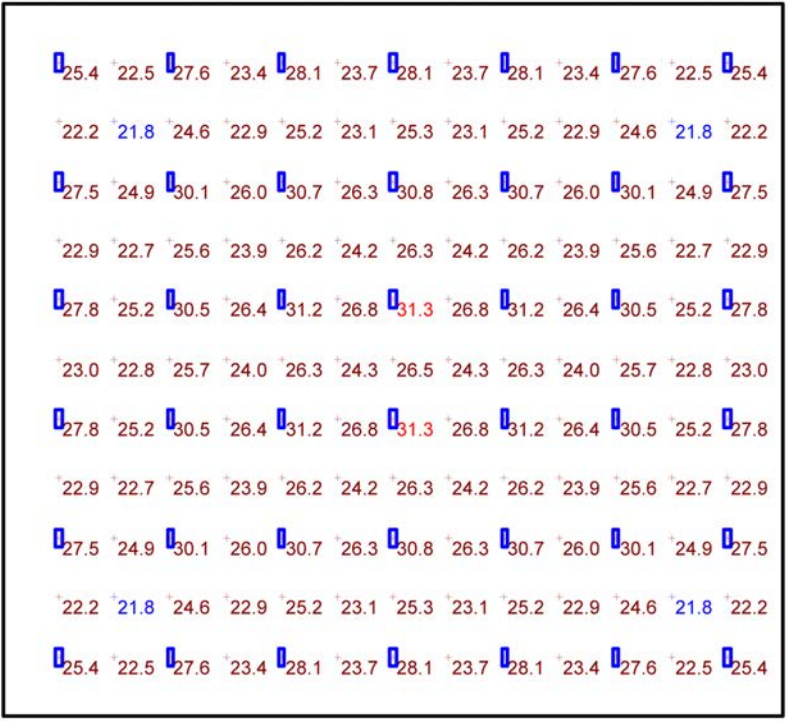
STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	23.1 fc	27.6 fc	16.3 fc	1.7:1	1.4:1

LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
○	LM-1	36	TH 400M PA22 (LEG 12.SC= 1.1)	OPEN ACRYLIC OPTICAL, 400 MH	ONE 400-WATT COATED BT-37 METAL HALIDE, VERTICAL BASE-UP POSITION.	400W.MH.ies	36000	0.72	458

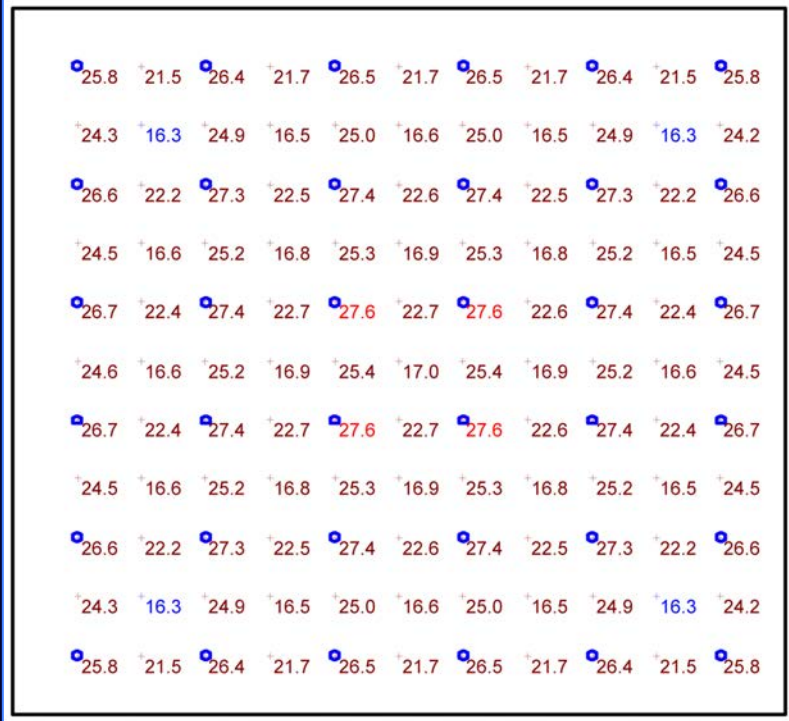


Plan View
Scale 1" = 40'

T5 HighBays - SKFHBLT56 ROI Calculations (Alternate)



Plan View
Scale 1" = 40'



Plan View
Scale 1" = 40'

T5 6 Lamp HighBay

Base Line of 8 fixtures 400W MH	Old Wattage 458	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 23.74	Cost Per week \$ 166.20	Cost per Month \$ 720.20	Cost Per Year \$ 8,642.35	
SKFHBLT56	New Wattage 302	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 18.26	Cost Per week \$ 127.85	Cost per Month \$ 554.04	Cost Per Year \$ 6,648.45	
	QTY RETROFITTED 42				Savings Per Day \$ 5.48	Savings Per Week \$ 38.34	Savings Per Month \$ 166.16	Savings per year \$ 1,993.90	Percentage Savings 23%

Cost Ea	Total Cost	Total Cost per project	ROI In Months	ROI In Years
SKFHBLT56 \$ 140.00	\$ 5,880.00	\$ 5,880.00	35.4	2.9

	Savings over 50,000 Hours \$ 22,824.00
SKFHBLT56	Cost of Power over 50,000 Hours \$ 76,104.00
400W MH	Cost of Power over 50,000 Hours \$ 98,928.00

* Estimated up-front LED premium paid per fixture without discounts or utility rebates.

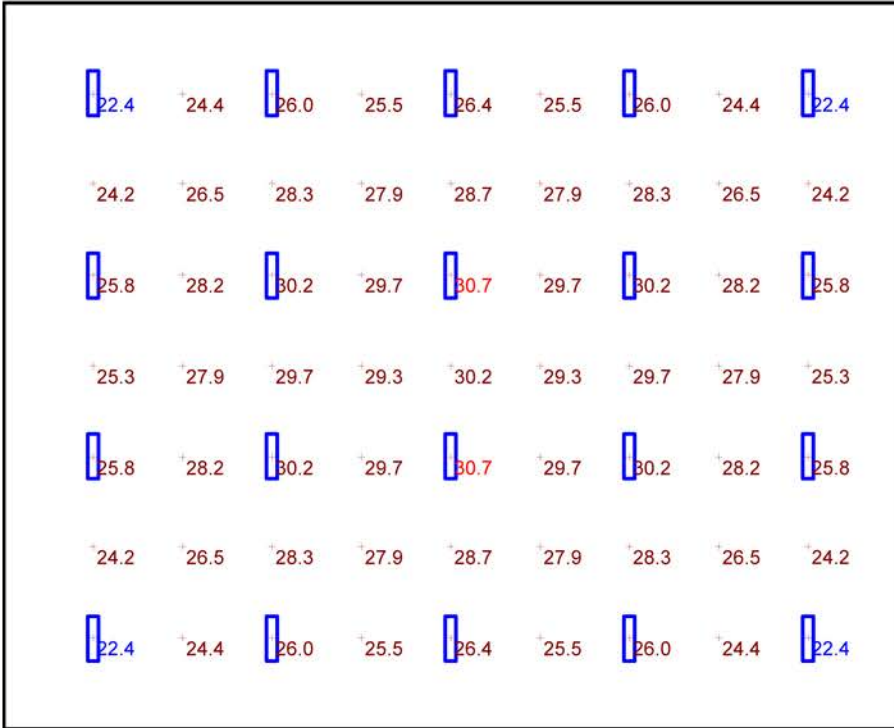
T8 HighBays – SKFHBLT84 vs. 400W MH

STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	27.0 fc	30.7 fc	22.4 fc	1.4:1	1.2:1

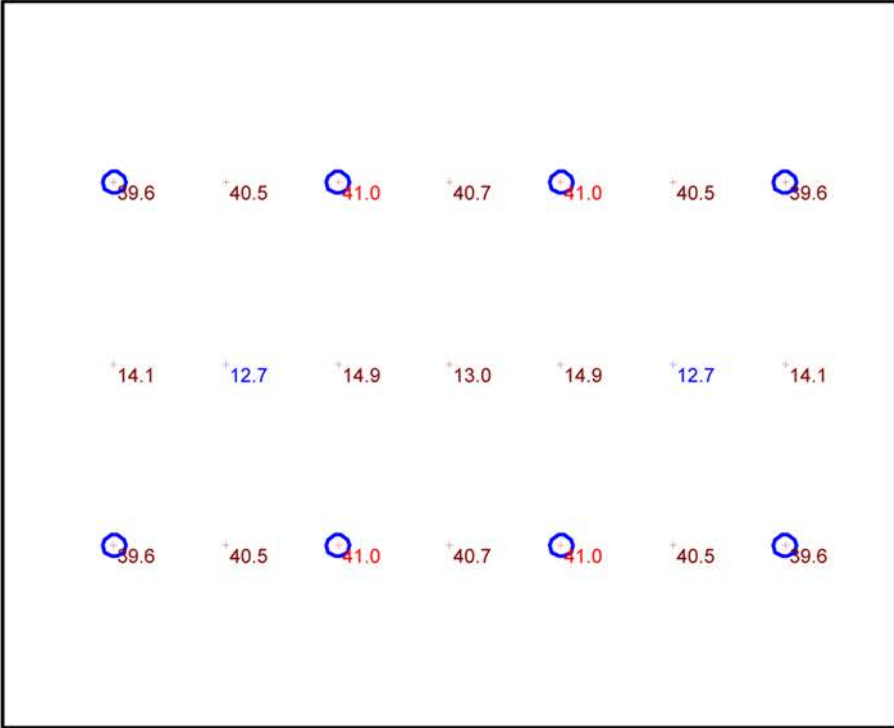
LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
□	LM-1	20	SKFHBLT84	FORMED STEEL HOUSING WITH 30, 1" X 1/16" SLOTS, FORMED SPECULAR ALUMINUM REFLECTORS, NO ENCLOSURE.	FOUR 32 WATT T8 LINEAR FLUORESCENT LAMPS RATED AT 3200 LUMENS EACH.	IESFile_SKFHBLT84.IES	3200	0.64	111

STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	31.5 fc	41.0 fc	12.7 fc	3.2:1	2.5:1

LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
○	LM-1	8	TH 400M PA22 (LEG 12,SC= 1.1)	OPEN ACRYLIC OPTICAL, 400 MH	ONE 400-WATT COATED BT-37 METAL HALIDE, VERTICAL BASE-UP POSITION.	TH_400M_PA22_(LEG_12,SC=1.1).ies	36000	0.72	458

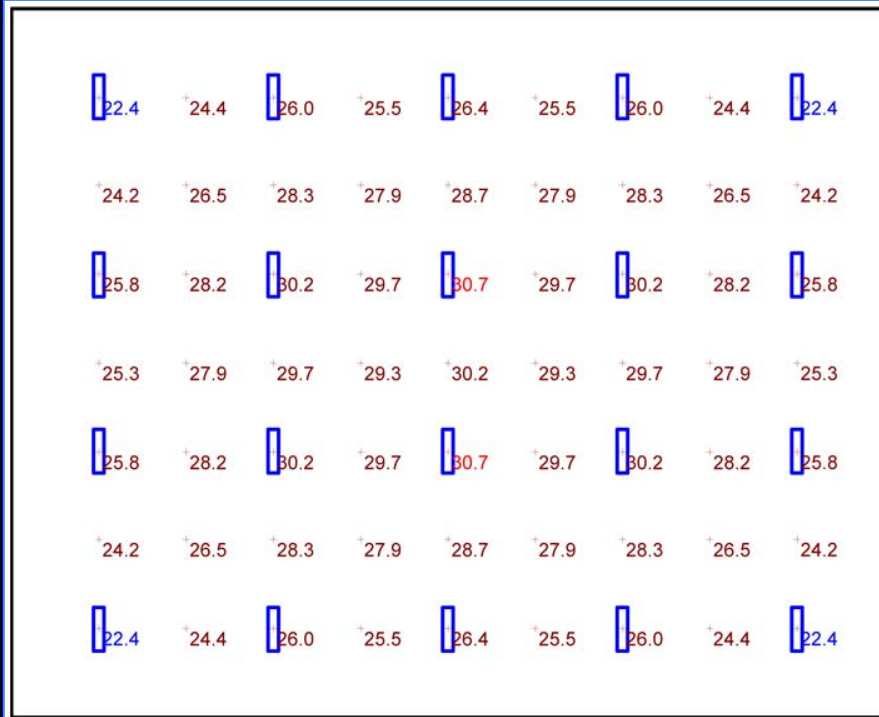


Plan View
Scale 1" = 16'

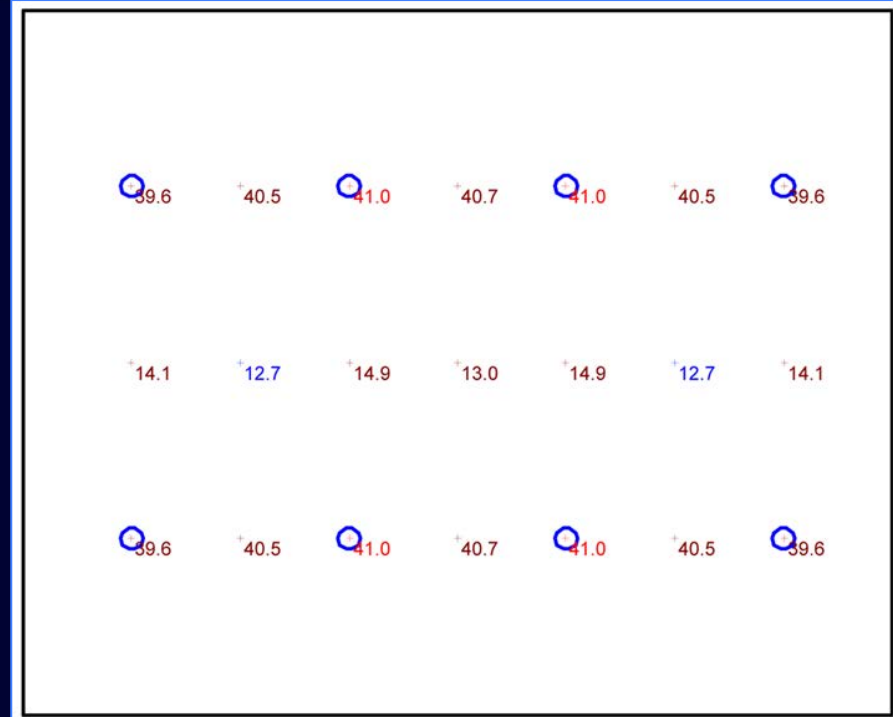


Plan View
Scale 1" = 16'

T8 HighBays – SKFHBLT84 ROI Calculations



Plan View
Scale 1" = 16'



Plan View
Scale 1" = 16'

T8 4 Lamp HighBay									
Base Line of 8 fixtures 400W MH	Old Wattage 458	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 5.28	Cost Per week \$ 36.93	Cost per Month \$ 160.04	Cost Per Year \$ 1,920.52	
SKFHBLT84	New Wattage 111	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 3.20	Cost Per week \$ 22.38	Cost per Month \$ 96.97	Cost Per Year \$ 1,163.64	
	QTY RETROFITTED 20				Savings Per Day \$ 2.08	Savings Per Week \$ 14.56	Savings Per Month \$ 63.07	Savings per year \$ 756.89	Percentage Savings 39%

Cost Ea	Total Cost	Total Cost per project	ROI In Months	ROI In Years
SKFHBLT84 \$ 105.00	\$ 2,100.00	\$ 2,100.00	33.3	2.8

	Savings over 50,000 Hours	\$ 8,664.00
SKFHBLT84	Cost of Power over 50,000 Hours	\$ 13,320.00
400W MH	Cost of Power over 50,000 Hours	\$ 21,984.00

* Estimated up-front LED premium paid per fixture without discounts or utility rebates.

T8 HighBays – SKFHBLT86 vs. 400W MH

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	25.0 fc	29.1 fc	23.2 fc	1.3:1	1.1:1

LUMINAIRE SCHEDULE

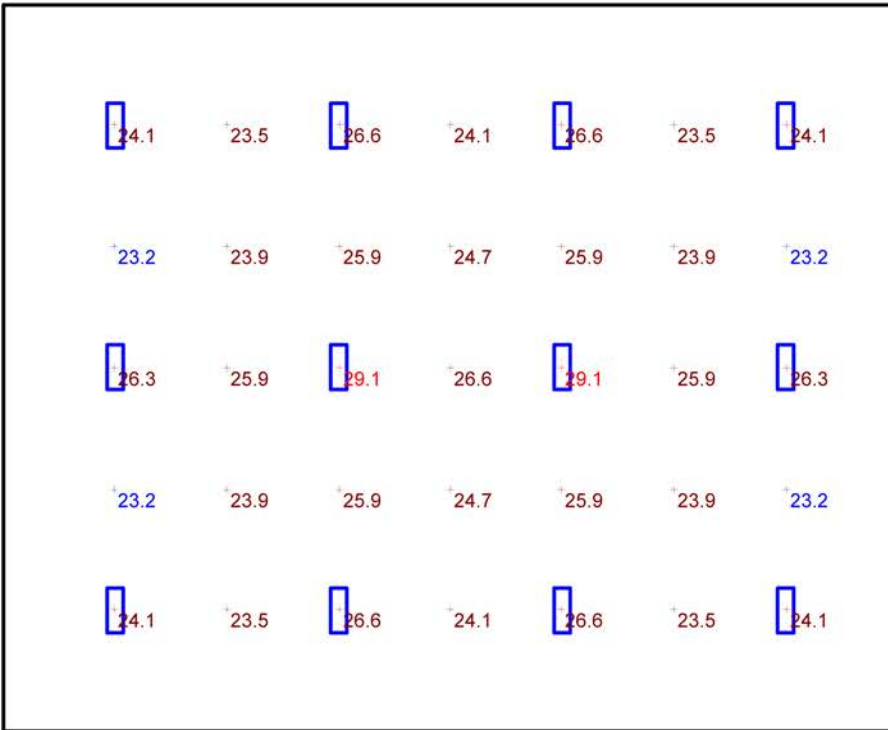
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
□	LM-1	12	SKFHBLT86	FORMED STEEL HOUSING WITH 30, 1" X 1/16" SLOTS, FORMED SPECULAR ALUMINUM REFLECTORS, NO ENCLOSURE.	SIX 32 WATT T8 LINEAR FLUORESCENT LAMPS RATED AT 3200 LUMENS EACH.	IESFile_SKFHBLT86.IES	3200	0.64	167

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	31.5 fc	41.0 fc	12.7 fc	3.2:1	2.5:1

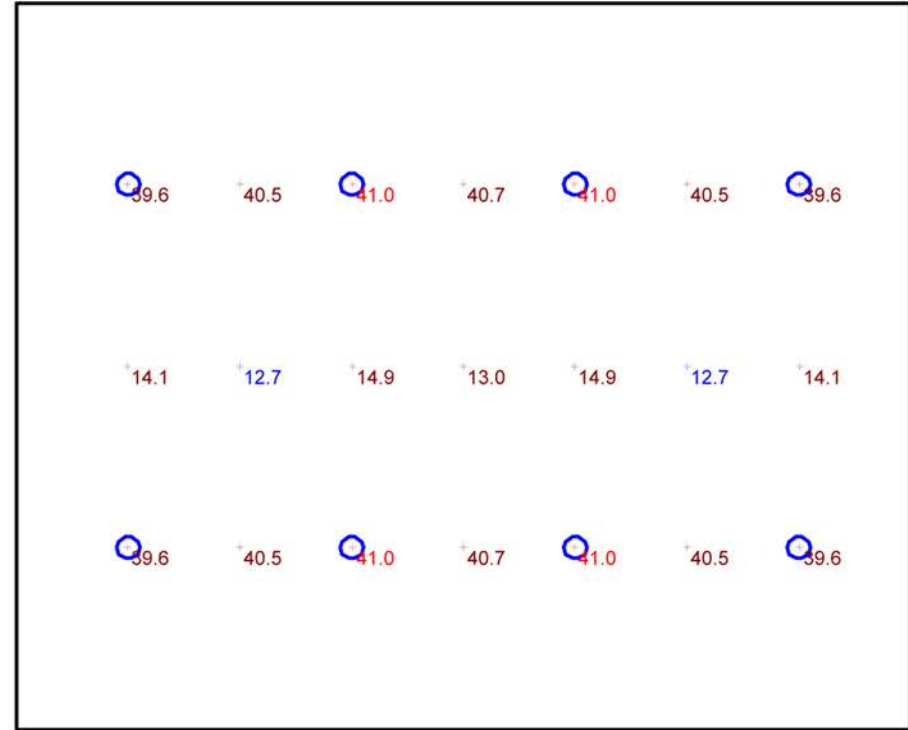
LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
○	LM-1	8	TH 400M PA22 (LEG 12,SC= 1.1)	OPEN ACRYLIC OPTICAL, 400 MH	ONE 400-WATT COATED BT-37 METAL HALIDE, VERTICAL BASE-UP POSITION.	TH_400M_PA22_(LEG_12,SC=1.1).ies	36000	0.72	458



Plan View

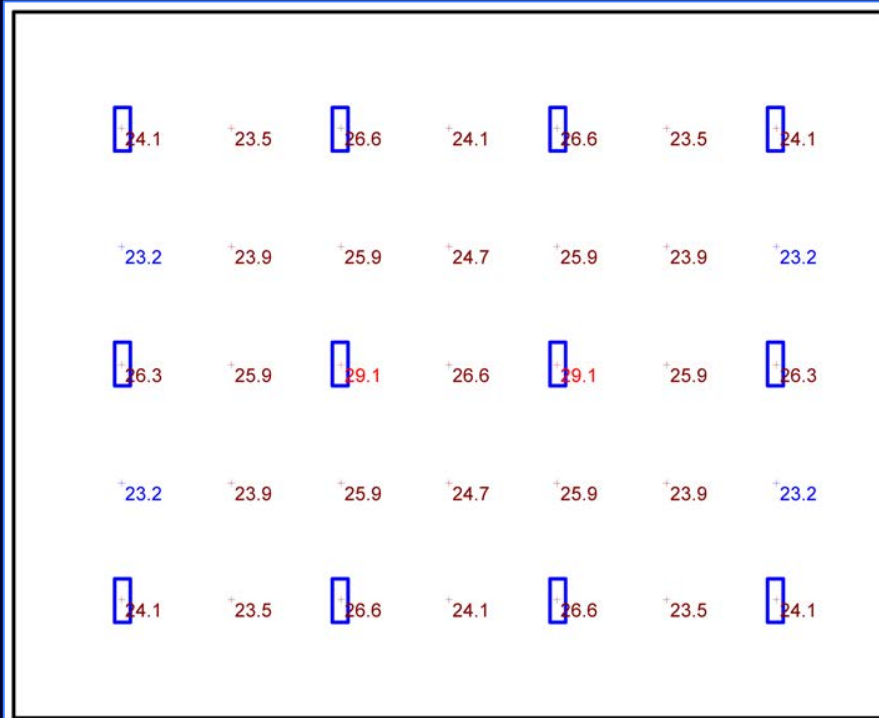
Scale 1" = 16'



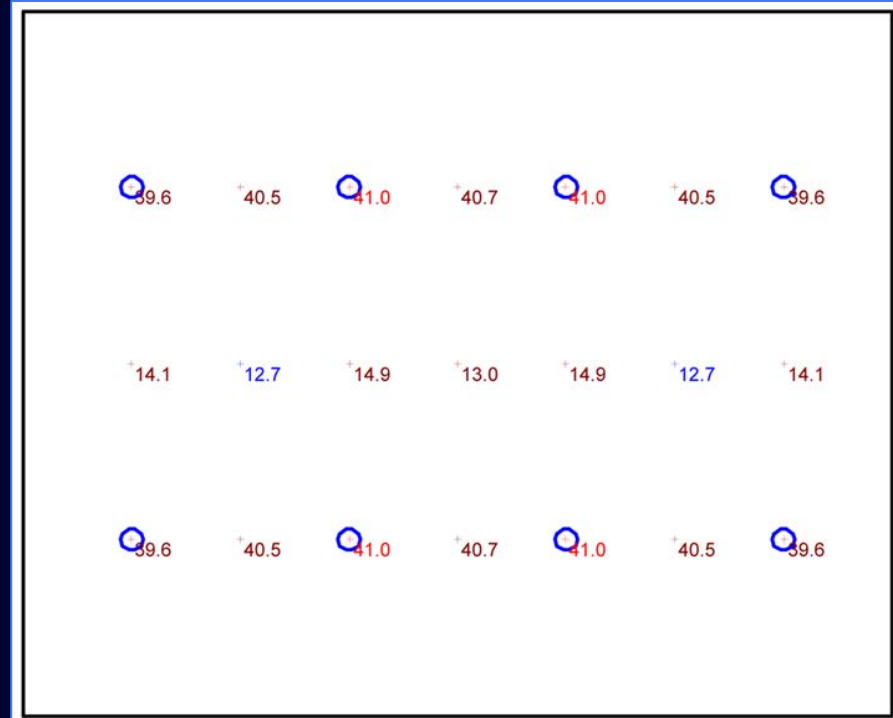
Plan View

Scale 1" = 16'

T8 HighBays – SKFHBLT86 ROI Calculations



Plan View
Scale 1" = 16'



Plan View
Scale 1" = 16'

T8 6 Lamp HighBay

Base Line of 8 fixtures 400W MH	Old Wattage 458	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 5.28	Cost Per week \$ 36.93	Cost per Month \$ 160.04	Cost Per Year \$ 1,920.52	
SKFHBLT86	New Wattage 167	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 2.89	Cost Per week \$ 20.20	Cost per Month \$ 87.53	Cost Per Year \$ 1,050.42	
	QTY RETROFITTED 12				Savings Per Day \$ 2.39	Savings Per Week \$ 16.73	Savings Per Month \$ 72.51	Savings per year \$ 870.11	Percentage Savings 45%

Cost Ea	Total Cost	Total Cost per project	ROI In Months	ROI In Years
SKFHBLT86 \$ 120.00	\$ 1,440.00	\$ 1,440.00	19.9	1.7

	Savings over 50,000 Hours	\$ 9,960.00
SKFHBLT86	Cost of Power over 50,000 Hours	\$ 12,024.00
400W MH	Cost of Power over 50,000 Hours	\$ 21,984.00

* Estimated up-front LED premium paid per fixture without discounts or utility rebates.

High Power CFL HighBays – 150W vs. 400W MH

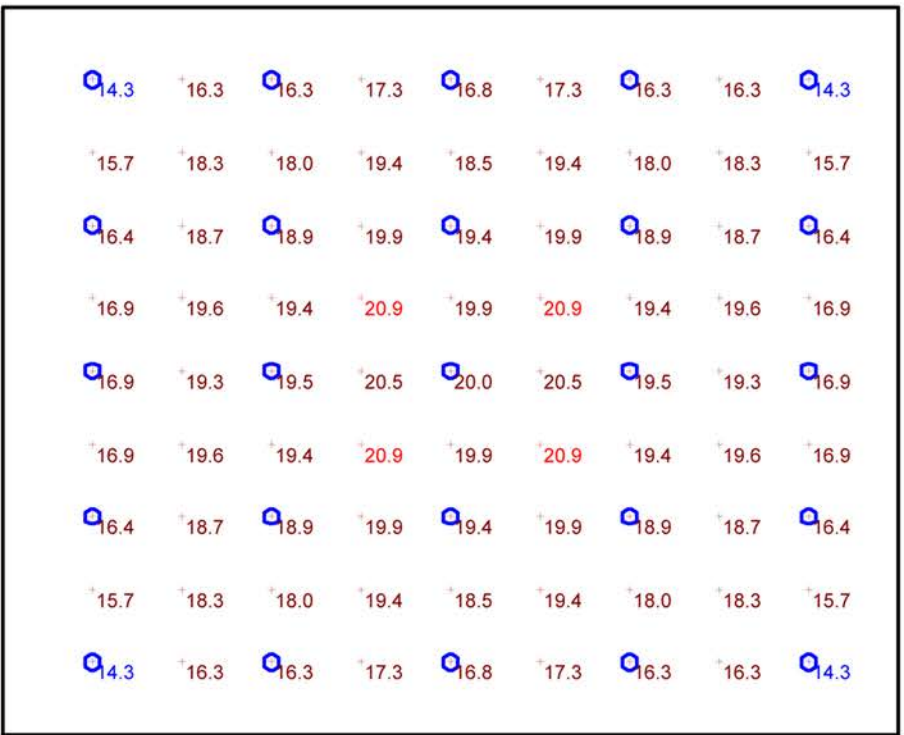


STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	18.1 fc	20.9 fc	14.3 fc	1.5:1	1.3:1

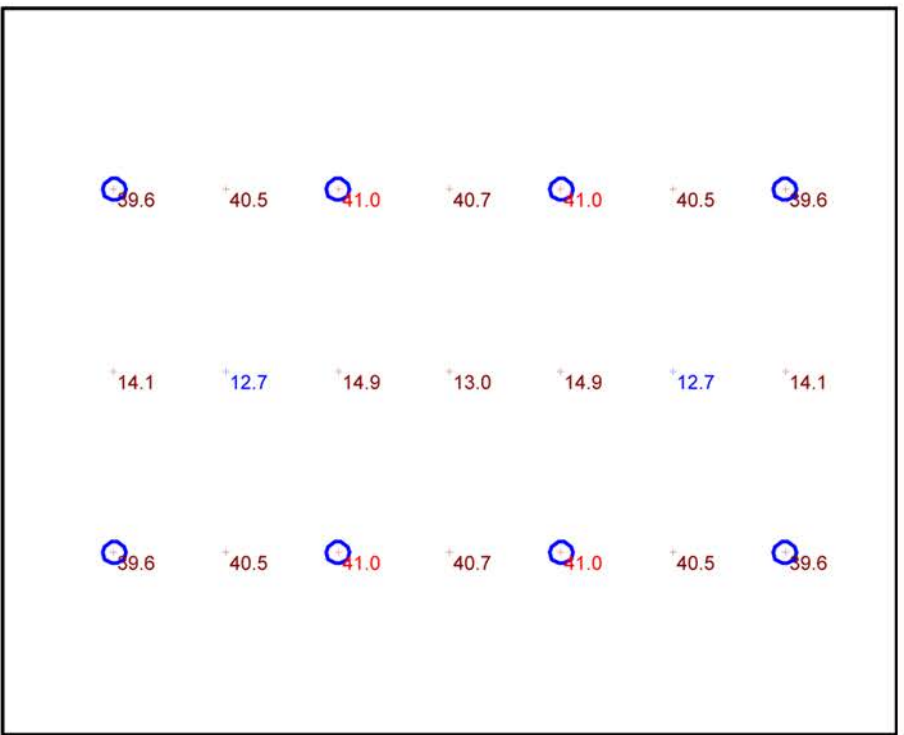
LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
○	LM-1	25	SKFHBP-SKO150EA50	16-1/4"DIA. X 16-3/4"H. 150W HIGHBAY FIXTURE 150W COMPACT FLUORESCENT LAMP, CLEAR ACRYLIC PRISMATIC REFRACTOR		IESFile_SKFH BP.IES	Absolute	0.81	125

STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	31.5 fc	41.0 fc	12.7 fc	3.2:1	2.5:1

LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
○	LM-1	8	TH 400M PA22 (LEG 12,SC= 1.1)	OPEN ACRYLIC OPTICAL, 400 MH	ONE 400-WATT COATED BT-37 METAL HALIDE, VERTICAL BASE-UP POSITION.	TH_400M_PA22_(LEG_12,SC=1.1).ies	36000	0.72	458

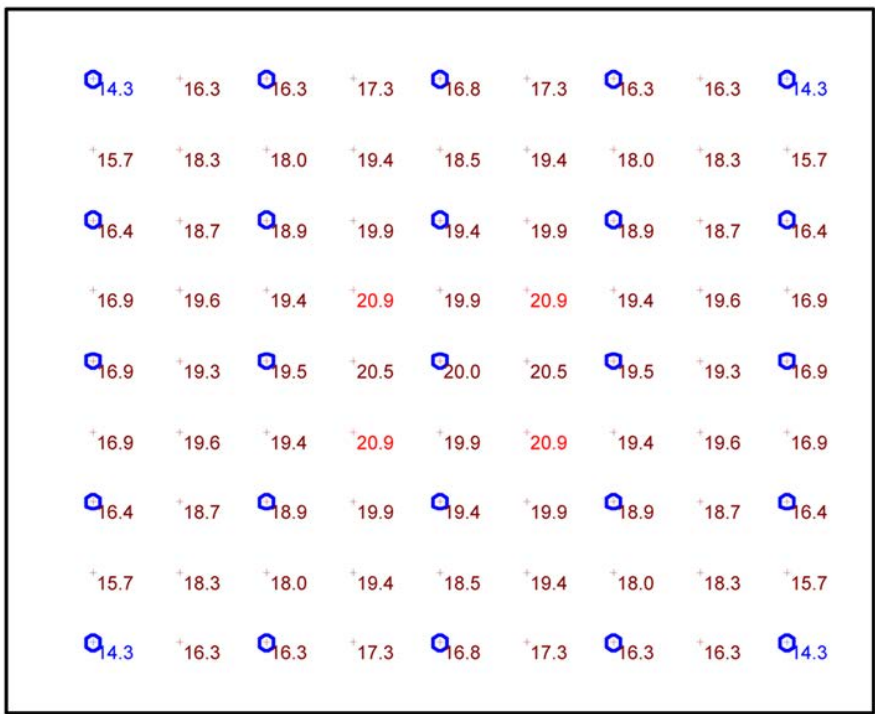


Plan View
Scale 1" = 16'

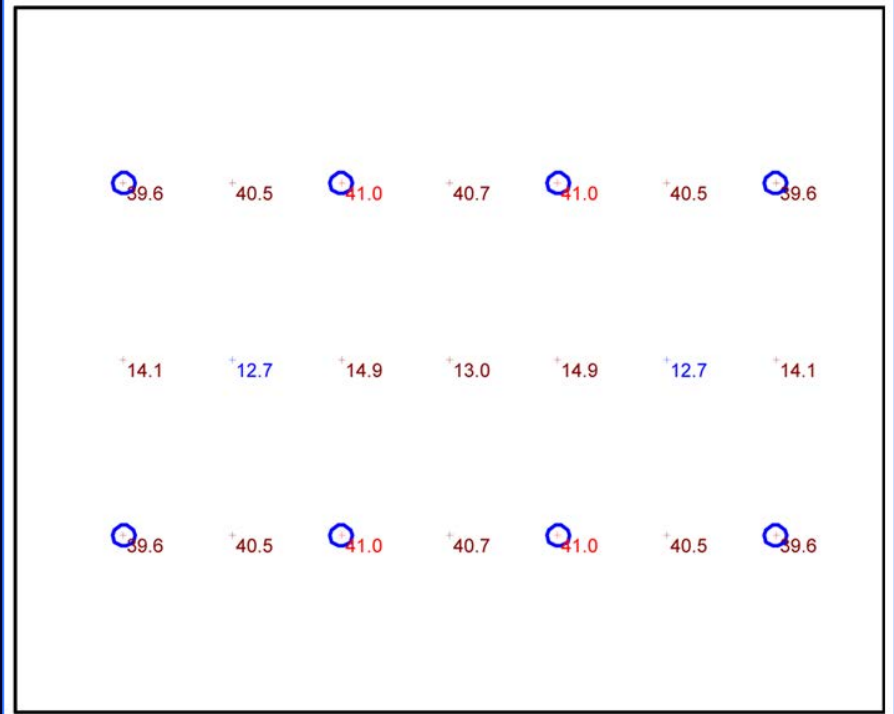


Plan View
Scale 1" = 16'

High Power CFL HighBays – SKFHBP ROI Calculations



Plan View
Scale 1" = 16'



Plan View
Scale 1" = 16'

SKFHBP-150W HIGHMAX									
Base Line of 8 fixtures 400W MH	Old Wattage 458	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 5.28	Cost Per week \$ 36.93	Cost per Month \$ 160.04	Cost Per Year \$ 1,920.52	
SKFHBP-150W HIGHMAX	New Wattage 125	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 4.50	Cost Per week \$ 31.50	Cost per Month \$ 136.50	Cost Per Year \$ 1,638.00	
	QTY RETROFITTED 25				Savings Per Day \$ 0.78	Savings Per Week \$ 5.43	Savings Per Month \$ 23.54	Savings per year \$ 282.52	Percentage Savings 15%
Cost Ea	Total Cost	Total Cost per project		ROI In Months	ROI In Years				
SKFHBP-150W HI	\$ 117.00	\$ 2,925.00	\$ 2,925.00	124.2	10.4				
					Savings over 50,000 Hours \$ 3,234.00				
					SKFHBP-150W HI \$ Cost of Power over 50,000 Hours 18,750.00				
					400W MH \$ Cost of Power over 50,000 Hours 21,984.00				

* Estimated up-front LED premium paid per fixture without discounts or utility rebates.

High Power CFL HighBays – 150W vs. 400W MH

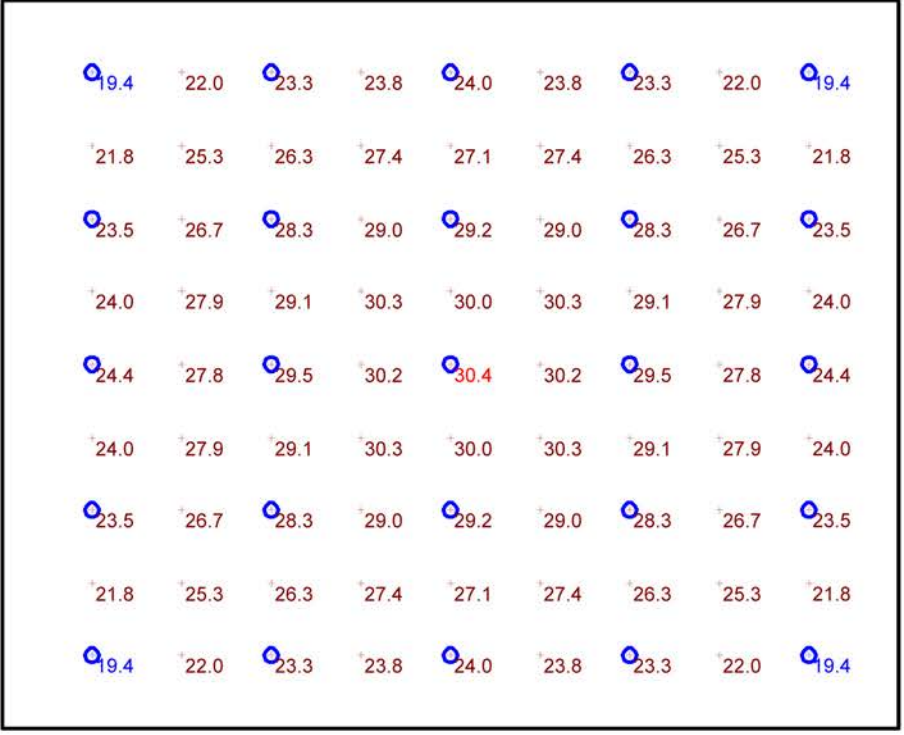


STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	26.0 fc	30.4 fc	19.4 fc	1.6:1	1.3:1

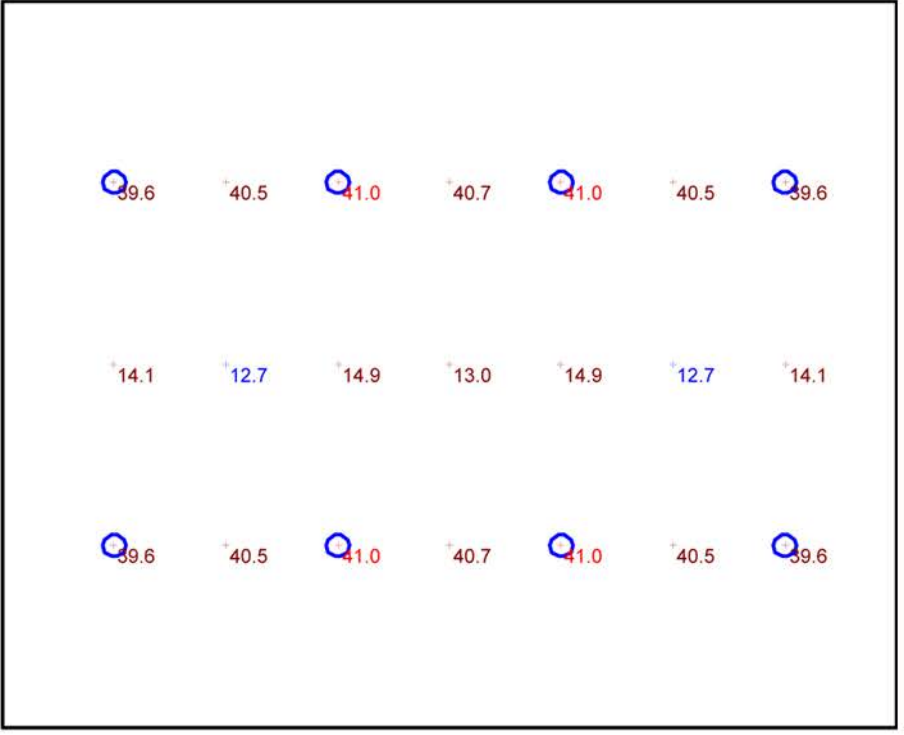
LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
○	LM-1	25	SKFHBSA-150W HIGHMAX	CAST GRAY ENAMEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM REFLECTOR, NO ENCLOSURE.	ONE VBU 150 WATT SELF-BALLASTED COMPACT FLUORESCENT LAMP RATED AT 9200 LUMENS.	IESFile_SKFH_BSA.IES	9200	0.81	116

STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	31.5 fc	41.0 fc	12.7 fc	3.2:1	2.5:1

LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
○	LM-1	8	TH 400M PA22 (LEG 12,SC= 1.1)	OPEN ACRYLIC OPTICAL, 400 MH	ONE 400-WATT COATED BT-37 METAL HALIDE, VERTICAL BASE-UP POSITION.	TH_400M_PA22_(LEG_12,SC=1.1).ies	36000	0.72	458

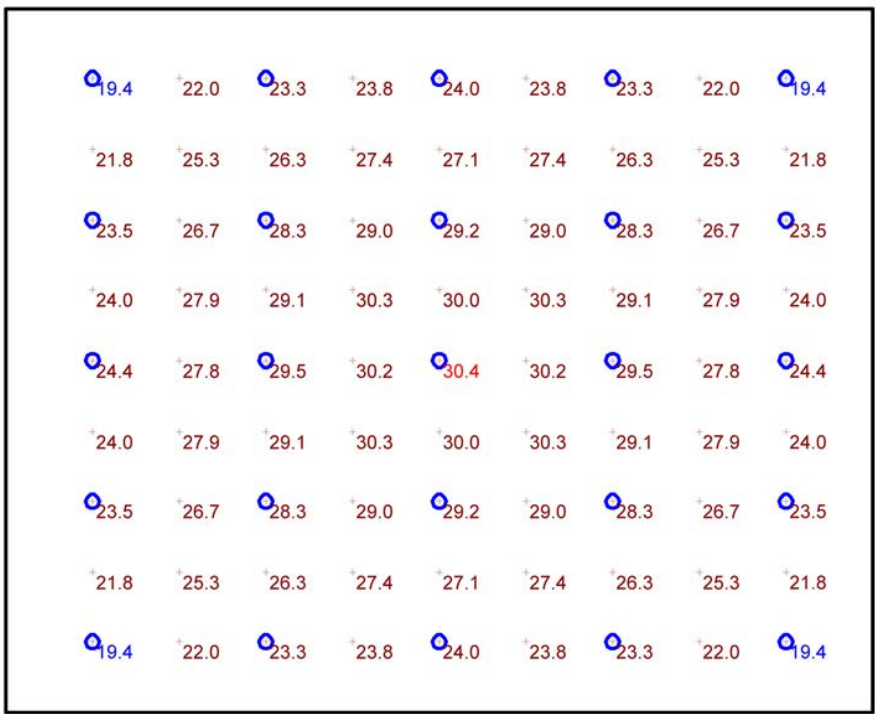


Plan View
Scale 1" = 16'

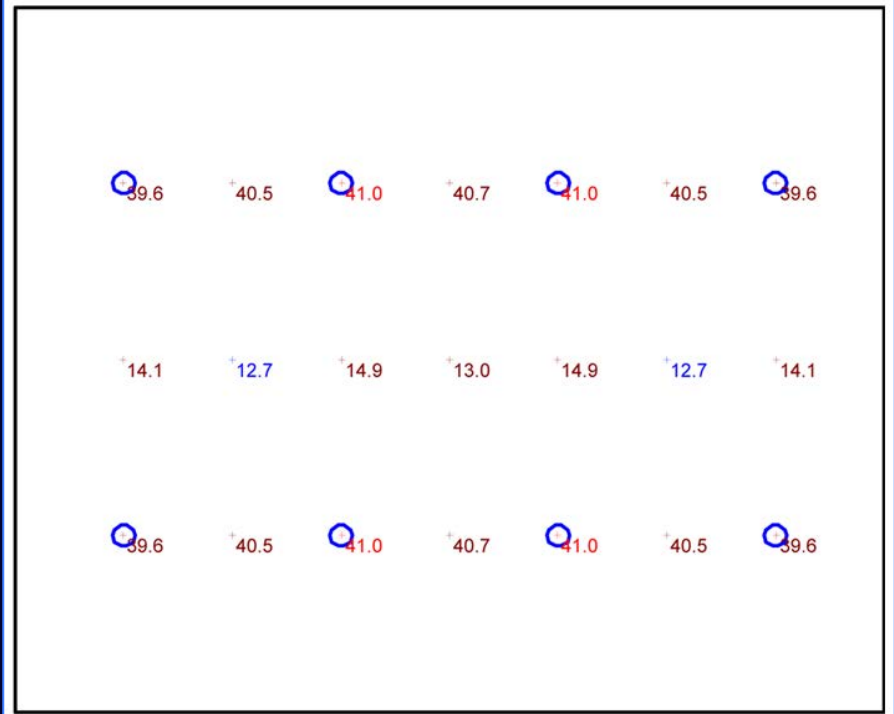


Plan View
Scale 1" = 16'

High Power CFL HighBays – SKFHBSA ROI Calculations



Plan View
Scale 1" = 16'



Plan View
Scale 1" = 16'

SKFHBSA-150W HIGHMAX									
Base Line of 8 fixtures 400W MH	Old Wattage 458	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 5.28	Cost Per week \$ 36.93	Cost per Month \$ 160.04	Cost Per Year \$ 1,920.52	
SKFHBSA-150W HIGHMAX	New Wattage 116	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 4.18	Cost Per week \$ 29.23	Cost per Month \$ 126.67	Cost Per Year \$ 1,520.06	
	QTY RETROFITTED 25				Savings Per Day \$ 1.10	Savings Per Week \$ 7.70	Savings Per Month \$ 33.37	Savings per year \$ 400.46	Percentage Savings 21%

Cost Ea	Total Cost	Total Cost per project	ROI In Months	ROI In Years
SKFHBSA-150W f \$ 104.00	\$ 2,600.00	\$ 2,600.00	77.9	6.5

	Savings over 50,000 Hours	\$ 4,584.00
SKFHBSA-150W HI	Cost of Power over 50,000 Hours	\$ 17,400.00
400W MH	Cost of Power over 50,000 Hours	\$ 21,984.00

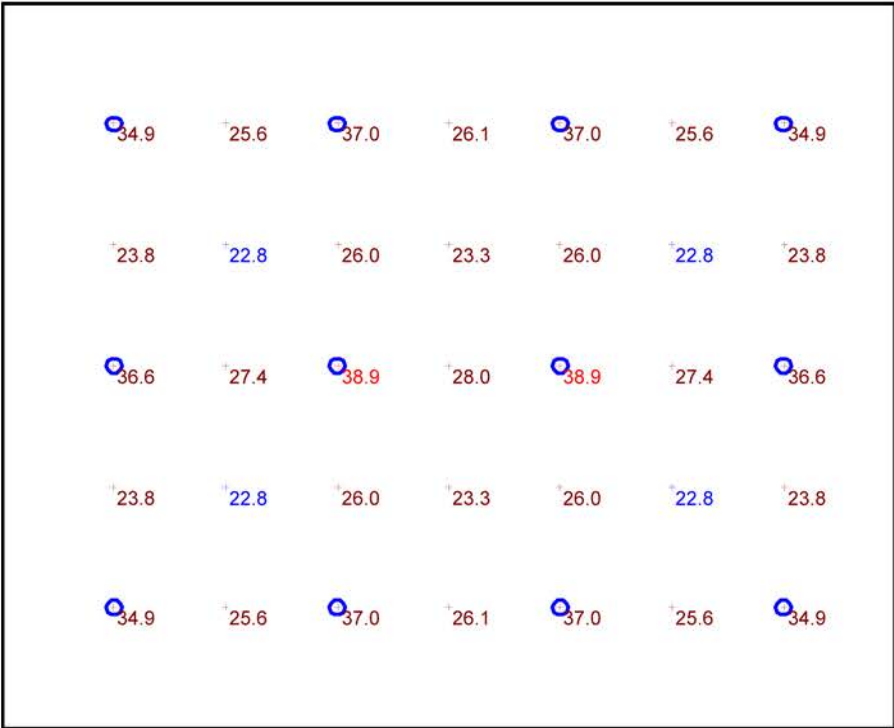
* Estimated up-front LED premium paid per fixture without discounts or utility rebates.

LED HighBays – MLHB150LED50 vs. 400W MH



STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	28.9 fc	38.9 fc	22.8 fc	1.7:1	1.3:1

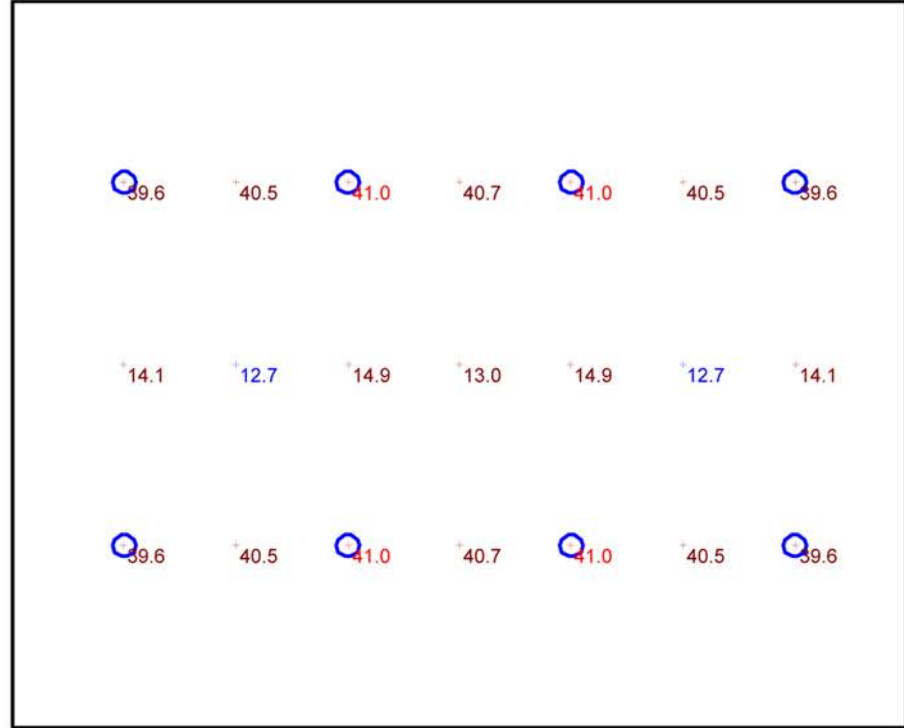
LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
○	LM-1	12	MLHB150LED50	15"DIA. X 9"H. 150W LED HIGHBAY 90 DAYLIGHT LEDS, ALUMINUM REFLECTOR WITH CLEAR ACRYLIC LENS		IESFile_MLHB 150LED50.IE S	Absolute	0.96	144



Plan View
Scale 1" = 16'

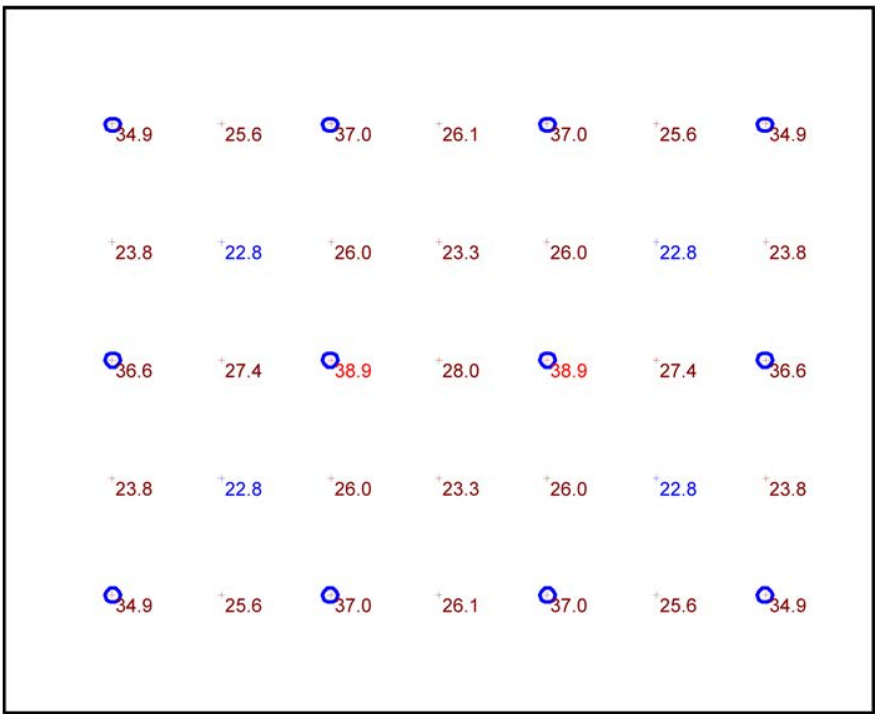
STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	31.5 fc	41.0 fc	12.7 fc	3.2:1	2.5:1

LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
○	LM-1	8	TH 400M PA22 (LEG 12,SC= 1.1)	OPEN ACRYLIC OPTICAL, 400 MH	ONE 400-WATT COATED BT-37 METAL HALIDE, VERTICAL BASE-UP POSITION.	TH_400M_PA2 2_(LEG_12,SC =_1.1).ies	36000	0.72	458

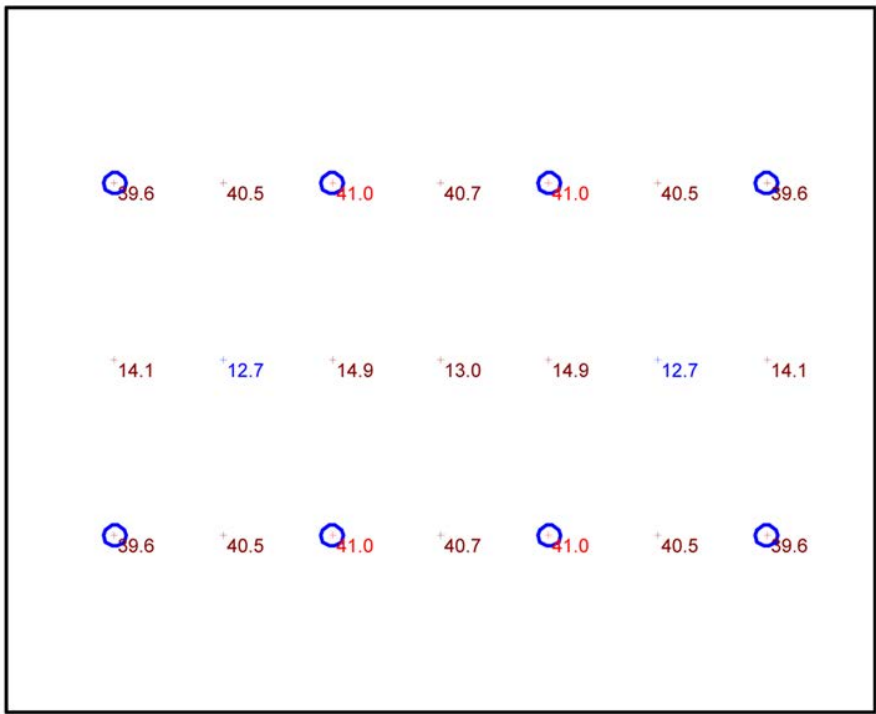


Plan View
Scale 1" = 16'

LED HighBays – ROI Calculations



Plan View
Scale 1" = 16'



Plan View
Scale 1" = 16'

LED 150W HighBay									
Base Line of 8 fixtures 400W MH	Old Wattage 458	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 5.28	Cost Per week \$ 36.93	Cost per Month \$ 160.04	Cost Per Year \$ 1,920.52	
MLHB150LED50N	New Wattage 150	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 2.59	Cost Per week \$ 18.14	Cost per Month \$ 78.62	Cost Per Year \$ 943.49	
	QTY RETROFITTED 12				Savings Per Day \$ 2.68	Savings Per Week \$ 18.79	Savings Per Month \$ 81.42	Savings per year \$ 977.03	Percentage Savings 51%

Cost Ea	Total Cost	Total Cost per project	ROI In Months	ROI In Years
MLHB150LED50N \$ 999.00	\$ 11,988.00	\$ 11,988.00	147.2	12.3

	Savings over 50,000 Hours	\$ 11,184.00
MLHB150LED50N	Cost of Power over 50,000 Hours	\$ 10,800.00
400W MH	Cost of Power over 50,000 Hours	\$ 21,984.00

* Estimated up-front LED premium paid per fixture without discounts or utility rebates.

LED BayMAX – BLHR43UN50 vs. 400W MH

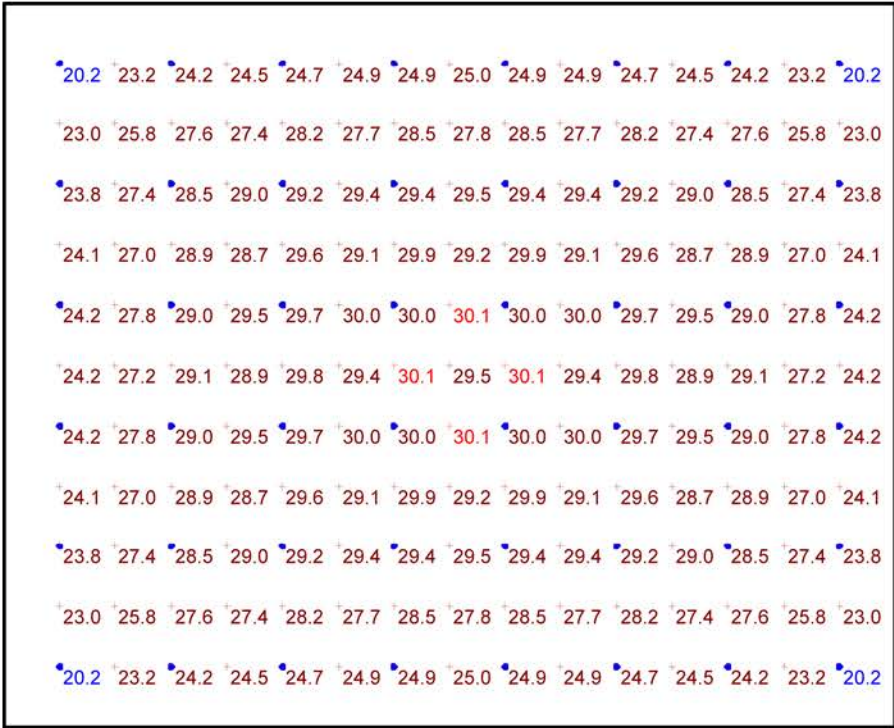


STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	27.3 fc	30.1 fc	20.2 fc	1.5:1	1.4:1

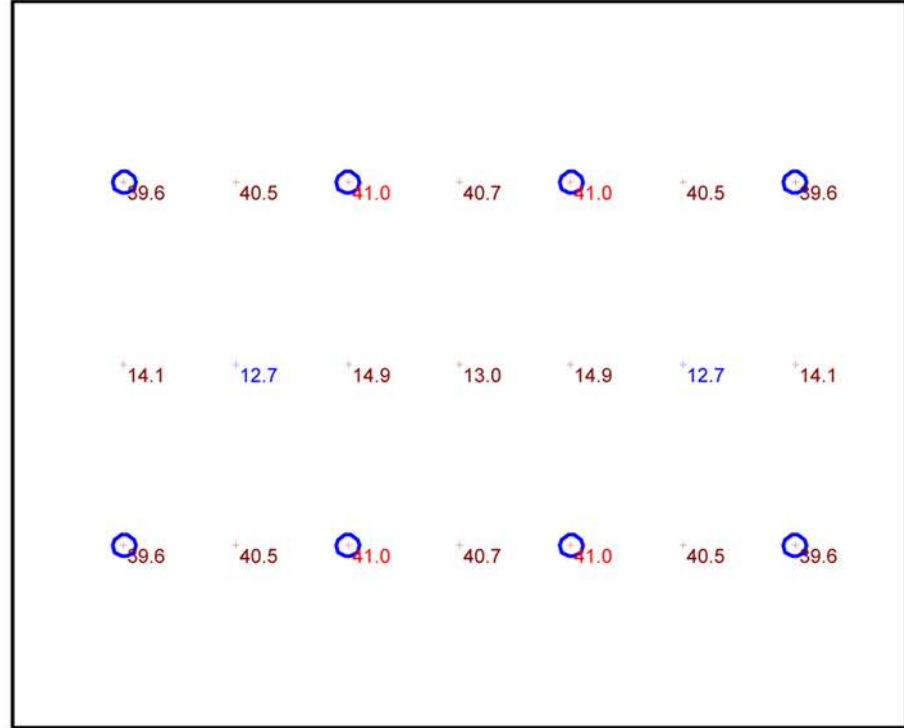
LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
○	LM-1	48	BLHR43UN50	6-3/16"DIA. X 9-1/16"H. 45W LED HIGH OUTPUT LAMP FOUR 5000K LED ARRAYS WITH OPTICS		IESFile_BLHR 43UN50.IES	Absolute	0.96	42

STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	31.5 fc	41.0 fc	12.7 fc	3.2:1	2.5:1

LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
○	LM-1	8	TH 400M PA22 (LEG 12,SC= 1.1)	OPEN ACRYLIC OPTICAL, 400 MH	ONE 400-WATT COATED BT-37 METAL HALIDE, VERTICAL BASE-UP POSITION.	TH_400M_PA2 2_(LEG_12,SC =_1.1).ies	36000	0.72	458

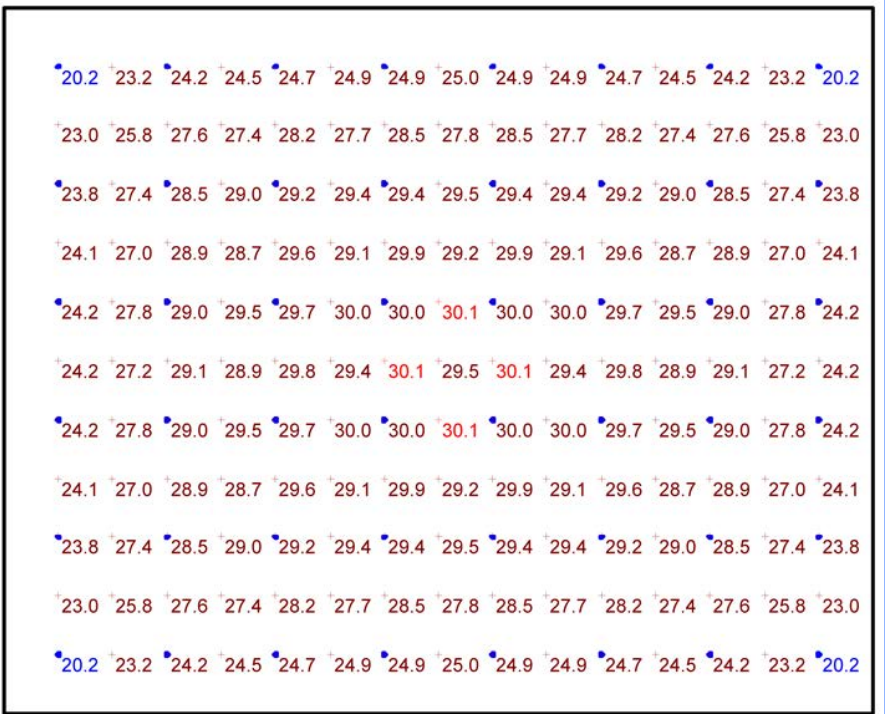


Plan View
Scale 1" = 16'

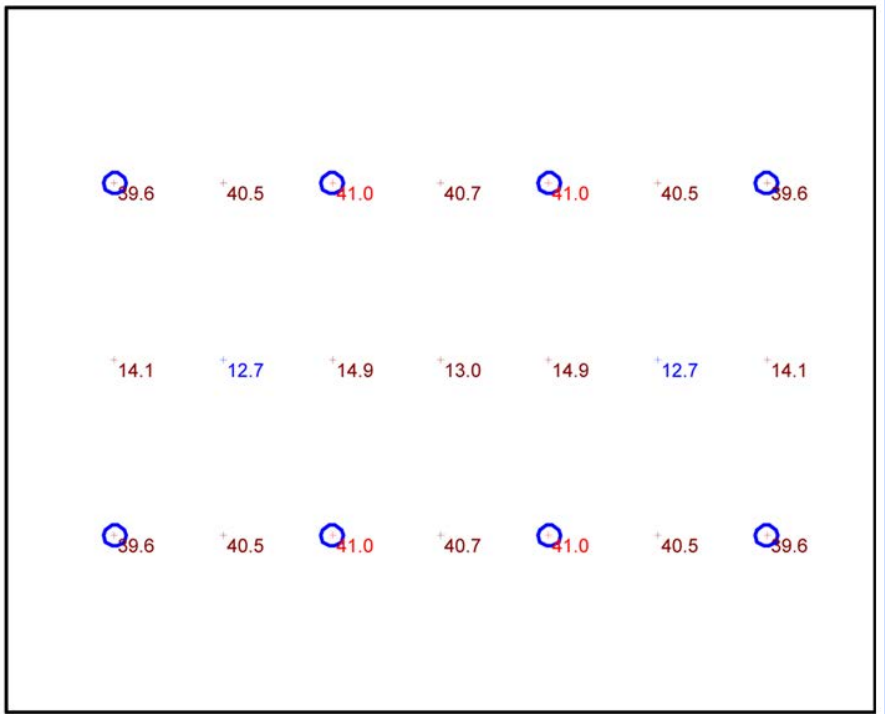


Plan View
Scale 1" = 16'

LED BayMAX – ROI Calculations



Plan View
Scale 1" = 16'



Plan View
Scale 1" = 16'

LED 43W High/Low bay									
Base Line of 8 fixtures 400W MH	Old Wattage 458	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 5.28	Cost Per week \$ 36.93	Cost per Month \$ 160.04	Cost Per Year \$ 1,920.52	
BLHR43UN50	New Wattage 14	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 0.97	Cost Per week \$ 6.77	Cost per Month \$ 29.35	Cost Per Year \$ 352.24	
	QTY RETROFITTED 48				Savings Per Day \$ 4.31	Savings Per Week \$ 30.16	Savings Per Month \$ 130.69	Savings per year \$ 1,568.29	Percentage Savings 82%
Cost Ea	Total Cost	Total Cost per project	ROI In Months	ROI In Years					
BLHR43UN50	\$ 299.00	\$ 14,352.00	\$ 14,352.00	109.8	9.2				
					Savings over 50,000 Hours				
									\$ 17,952.00
									\$ 4,032.00
									\$ 21,984.00

* Estimated up-front LED premium paid per fixture without discounts or utility rebates.

LED Element Flood – ELLF135UM5X vs. 400W MH

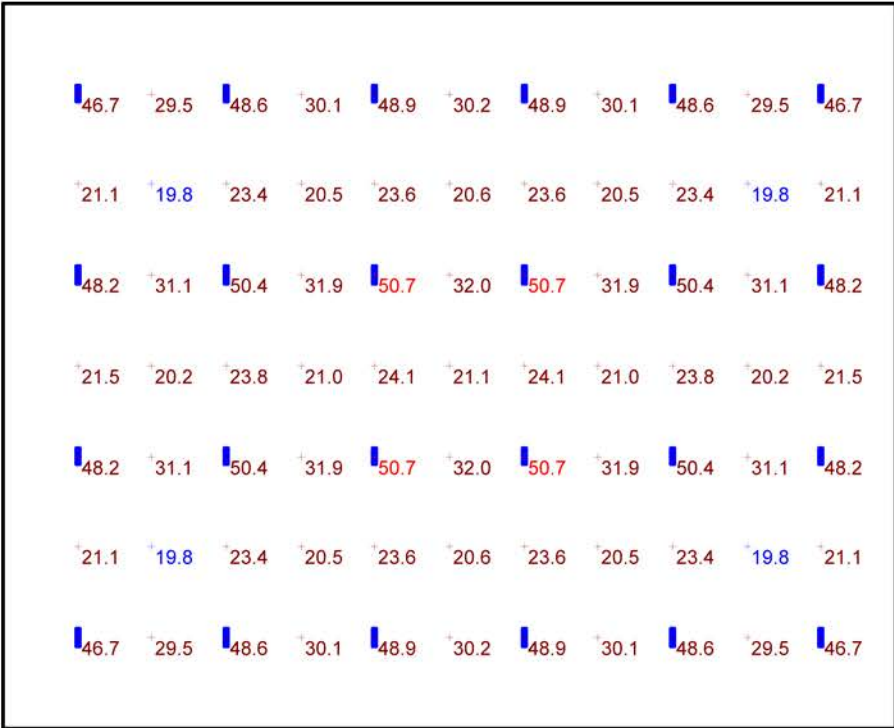


STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	32.5 fc	50.7 fc	19.8 fc	2.6:1	1.6:1

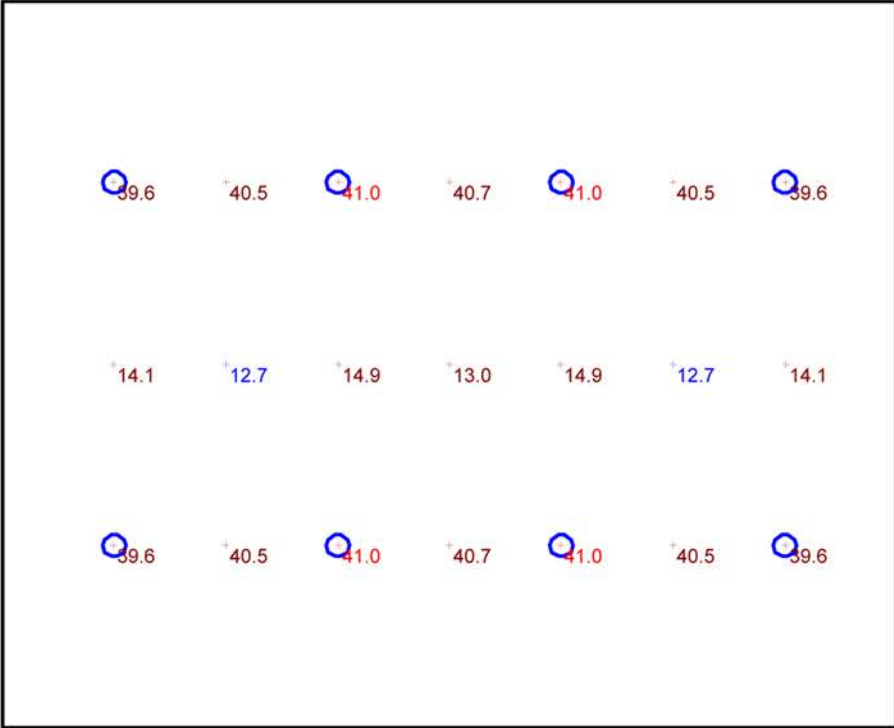
LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
□	LM-1	24	ELLF135UM5X	20-1/2"L. X 5-5/8"W. X 8"H. LED MEDIUM FLOOD LUMINAIRE TWO LED MODULES WITH 35 DAYLIGHT LEDES TOTAL OF 70 LEDES, CLEAR ACRYLIC LENS		ELLF135UM50 Absolute .IES	0.96	135	

STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Workplane	+	31.5 fc	41.0 fc	12.7 fc	3.2:1	2.5:1

LUMINAIRE SCHEDULE									
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
○	LM-1	8	TH 400M PA22 (LEG 12,SC= 1.1)	OPEN ACRYLIC OPTICAL, 400 MH	ONE 400-WATT COATED BT-37 METAL HALIDE, VERTICAL BASE-UP POSITION.	TH_400M_PA22_(LEG_12,SC=1.1).ies	36000	0.72	458

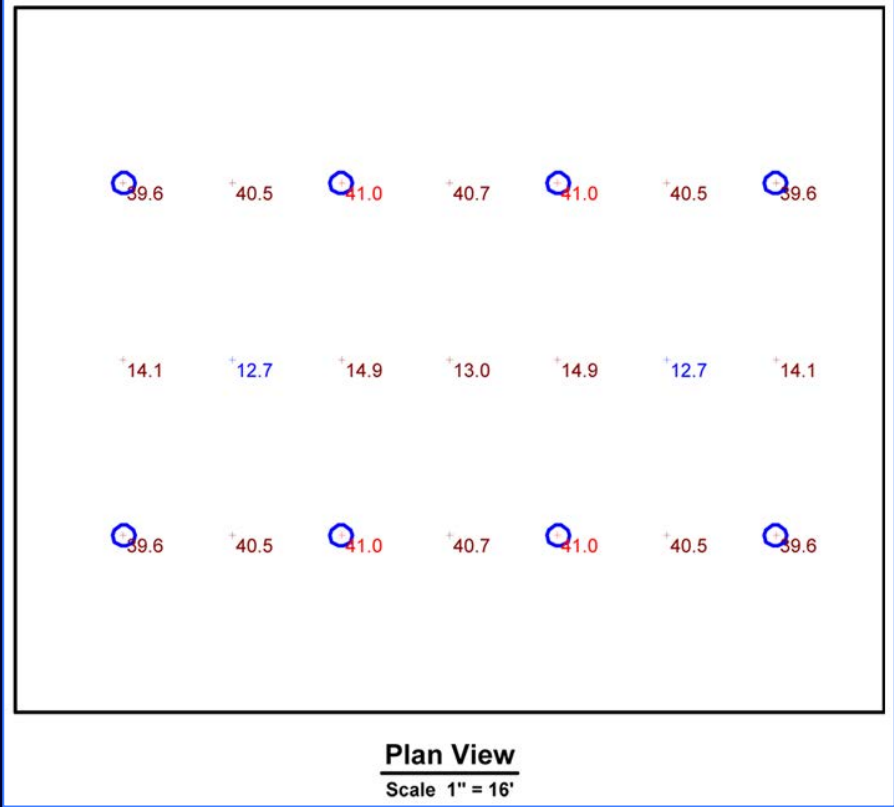
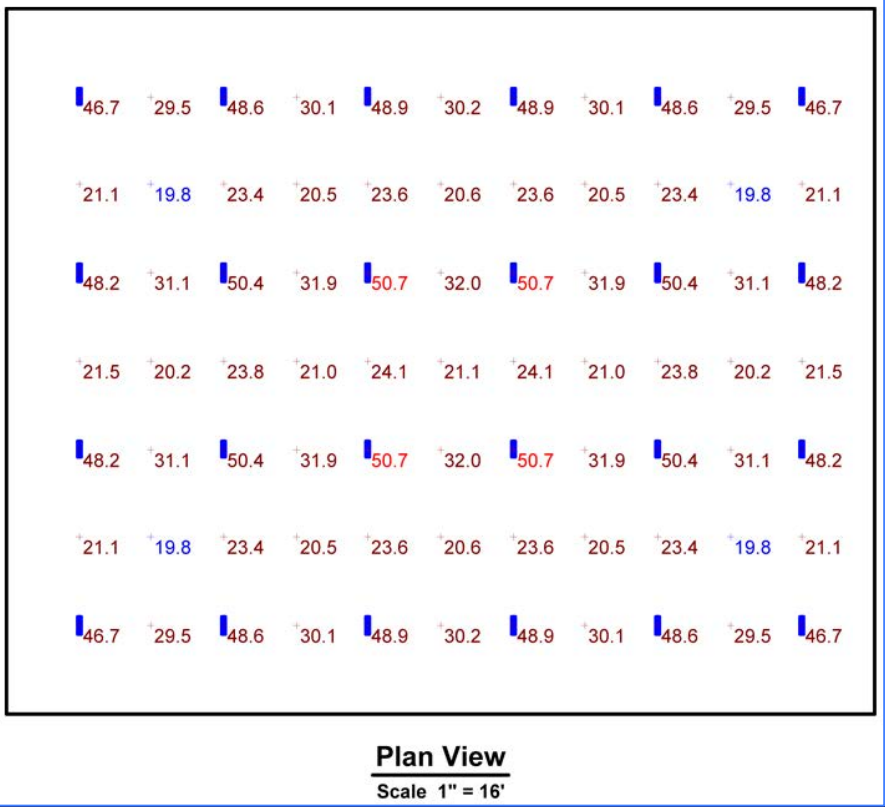


Plan View
Scale 1" = 16'



Plan View
Scale 1" = 16'

LED Element Flood – ROI Calculations



LED 135W High Bay/Flood Light									
Base Line of 8 fixtures 400W MH	Old Wattage 458	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 5.28	Cost Per week \$ 36.93	Cost per Month \$ 160.04	Cost Per Year \$ 1,920.52	
ELLF135UM50	New Wattage 135	Cost per KWH \$ 0.12	Hours per day 12	Days Per Week 7	Cost per day \$ 4.67	Cost Per week \$ 32.66	Cost per Month \$ 141.52	Cost Per Year \$ 1,698.28	
	QTY RETROFITTED 24				Savings Per Day \$ 0.61	Savings Per Week \$ 4.27	Savings Per Month \$ 18.52	Savings per year \$ 222.24	Percentage Savings 12%

Cost Ea	Total Cost	Total Cost per project	ROI In Months	ROI In Years
ELLF135UM50 \$ 1,220.00	\$ 29,280.00	\$ 29,280.00	1581.0	131.7

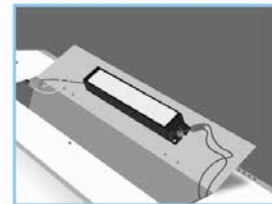
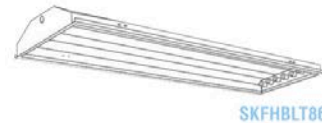
	Savings over 50,000 Hours	\$ 2,544.00
ELLF135UM50	Cost of Power over 50,000 Hours	\$ 19,440.00
400W MH	Cost of Power over 50,000 Hours	\$ 21,984.00

* Estimated up-front LED premium paid per fixture without discounts or utility rebates.



COMMERCIAL FIXTURES AND LAMPS SPECIFICATIONS

T8&T5 HighBay Fixture



HighBay Fixture Door

Hinged access door on the back of the fixture eliminates the need to take off the reflector to wire the ballast.

For more information on MaxLite products, visit:
www.MaxLite.com. Click on "PRODUCT LINE"

FOR ORDERING:

Tel: 1-800-555-5629	MaxLite
Fax: 973-244-7333	12 York Ave
E-mail: info@maxlite.com	West Caldwell, NJ
	07004



PRODUCT FEATURES:

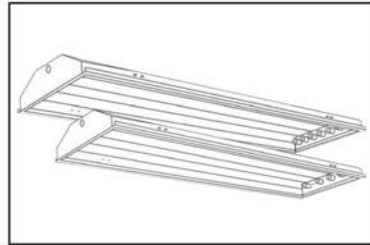
- Designed for HID to Fluorescent retrofit
- High Polish Reflector – 90% enhanced
- High Efficiency - Universal Voltage Ballast
- Quick Connects - For Easy Install
- Hooks and Chains - For Mounting
- Hinged Access Door for Ballast Change
- Maximum Photometric Efficiency
- 5-Year Warranty
- 20 Gauge Galvanized Steel
- Knockouts on each end for motion sensor mounting
- HPT8 Certified; visit www.CEE1.org

All specifications are subject to change without notice



MAXT8&T5-16





MaxLite T8 & T5 HighBay Fixtures

Fixture: 20 Gauge die formed Galvanized Steel housing, with post-painted white baked on enamel to guarantee long life, even in harsh environments. Hinged ballast door means easy access to the ballast without tools or without taking down the fixture. Ample slots for hook and chain hanging (supplied). Fixture is shipped fully wired.

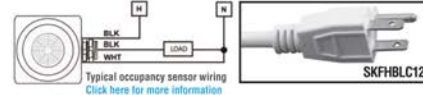
Reflectors: High polish reflector is 90% enhanced for maximum light output. Reflector designed for maximum photometric efficiency and maximum lumens.

Ballast: The fixture comes standard with MaxLite's High Efficiency Universal Voltage Ballast; for 120 Volts through 277 Volts (inclusive). This is a Nominal Ballast Factor ballast. Also available for special order is MaxLite's High Efficiency High Ballast Factor Universal Ballast; for 120Volts through 277 Volts (inclusive). Both the fixture and the ballasts have Quick Connects to speed up install and maintenance.

Accessories: Wire Guards and Lens and Door Frames come with Easy Lock catches which enable fixture to be opened from either side. Halves maintenance time as it eliminates excess moving of ladders or lifts. 10 Foot 3-Wire cord with plug also has Quick Connects for easy install. **Occupancy sensor:** high quality 120-277V T5 only. All fixtures will be wired as bi-level unless otherwise stated.

PRODUCT FEATURES:

- Designed for HID to Fluorescent retrofit
- High Polish Reflector – 90% enhanced
- High Efficiency - Universal Voltage Ballast
- Quick Connects - For Easy Install
- Hooks and Chains - For Mounting
- Hinged Access Door for Ballast Change
- Maximum Photometric Efficiency
- 5-Year Warranty
- Knockouts on each end for motion sensor mounting
- 20 Gauge Galvanized Steel
- HPT8 Certified; visit www.CEE1.org



B Complete the Build-A-Model worksheet; then transfer the complete model number here:

WRITE YOUR COMPLETED MODEL NUMBER HERE:



A Work from left to right to build your model number. Choose the options you want, and write the corresponding code on the blank line.

BUILD-A-MODEL: Example: SKFHBLT56 / SKFHBLC277 / SKFHBL6WG

SKFHBL

SERIES	LAMPS	# OF LAMPS	BALLAST FACTOR	VOLTAGE CORD WITH PLUG	COVER OPTIONS	OTHER OPTIONS
SKFH = MaxLite HighBay fixture	T5 = T5 Lamps T8 = T8 Lamps	4 = 4 Lamps 6 = 6 Lamps	— = High efficiency nominal ballast factor. This is the standard ballast. Write nothing in the model #. HEH = High efficiency high ballast factor. If you want this ballast write HEH in the model #.	SKFHBLC277 = 277V cord with plug SKFHBLC120 = 120V cord with plug	SKFHBL6WG = 6 lamp wire guard SKFHBL4WG = 4 lamp wire guard SKFHBL6DF = 6 lamp lens and door frame SKFHBL4DF = 4 lamp lens and door frame	MS = Occupancy Sensor. (Available on 120-277V T5's only)

All specifications are subject to change without notice

MAX31545-10-T8

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High Power CFL HighBays



PRODUCT FOCUS **HIGHMAX HIGHBAY FIXTURES**

For MaxLite HighMax High Wattage CFLs

FOR Warehouses
Gymnasiums
Factories
Convention Halls



SKFHBP



SKFHBSA

- Designed for HighMax high wattage self ballasted CFLs
- No external ballast required
- Mogul Socket
- Clear acrylic or spun aluminum
- Complete with Hook and Cord
- Available accessories include Wire guard, Acrylic Lens and Inner Reflector
- (For best results, the Inner Reflector is always recommended for the Acrylic Fixture for 150W and 200W retrofit/installs)



**PATENT PENDING FOR HEAT
MANAGEMENT SYSTEM
Pub'n No. 20090153061**

*All specifications are subject to change without notice

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PRODUCT FOCUS

HIGHMAX HIGHBAY FIXTURES

For MaxLite HighMax High Wattage CFLs

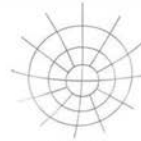


SKFHBSA
(7) 6762711414 (4)

SKFHBP
(7) 6762711225 (6)

HIGHBAYSPECIFICATIONS

Order Code	Description	Dimensions
11225	SKFHBP- Acrylic HighMax Highbay Fixture with 1XE39 Base, hook and cord	16.5" x 21"
70039	SKFHBSA- Spun Aluminum HighMax Highbay Fixture with 1XE39 Base, hook and cord	16.5" x 21"



SKFBWG
(7) 6762711233 (1)



SKFBCL
(7) 6762711232 (4)



SKFHBA
(7) 6762711230 (5)

HIGHBAYACCESSORIES

Order Code	Description	Dimensions
11230	SKFHBA- Inner Reflector for 150W & 200W HighMax Highbay Retrofits	11.1" x 9.6"
11232	SKFBCL- Conical Lens for HighMax HighBay Acrylic Fixture	16.5" Diameter

* MaxLite, in its policy of continuous improvement, has recently evaluated its 200 Watt HighMax, and after conducting thermal improvement evaluations we can no longer recommend its use in a conical lens enclosed High Bay fixture. Although this represents a small specialized segment of sales, we can recommend the use of a conical lens when used with a 150 Watt HighMax, or a 150 Watt HighMax along with our reflector as an alternate, for various applications. New installations incorporating both a conical lens enclosed High Bay fixture and the 200 Watt HighMax will not be covered under our warranty. Any MaxLite High Bay fixture previously bought and installed with a MaxLite 200 Watt HighMax will still be subject to terms of our current warranty.

SPECIAL NOTES

- >> No ballast required
- >> For use with MaxLite HighMax™ self ballasted high wattage CFLs

APPLICATIONS

- Warehouses
- Gymnasiums
- Factories
- Convention Halls

LOCATIONS

- Warehouses
- Factories
- Gymnasiums
- Convention Halls

BENEFITS

- Designed specifically for HighMax (Lamp sold separately)
- 1 year fixture warranty from date of purchase. Not suitable for outdoor use

SPECIFICATIONS

- PATENT PENDING FOR HEAT MANAGEMENT SYSTEM Publ'n No. 20090153061



FCC Certified
* UPC Codes

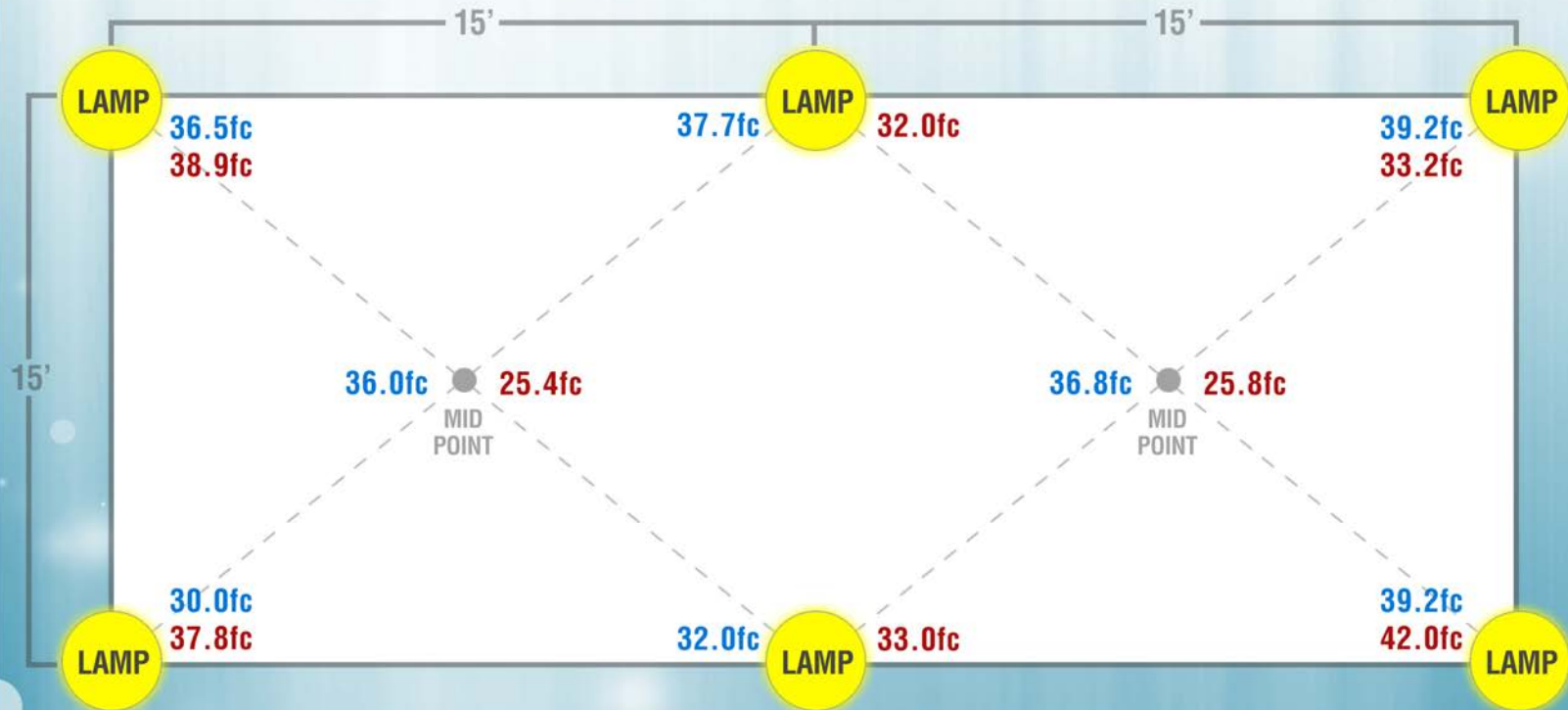
MaxLite™ 1-800-555-5629 | Fax: 973-244-7333 | info@maxlite.com | www.maxlite.com



COMPARISON FOOT CANDLE READINGS

150 WATT
CFL WITH HIGHBAY REFLECTOR

400 WATT
METAL HALIDE LAMP



FOOT CANDLE READINGS TAKEN AT FLOOR LEVEL WITH METER PLACED DIRECTLY ON THE CEMENT FLOOR.

MORE UNIFORM LIGHT DISPERSAL ACCOUNTS FOR THE HIGHER 'MID-POINT' FOOT CANDLE READINGS FOR CFL PRODUCT.

MLHB MaxLED Highbay Fixtures

MLHB150LED50N



The MaxLED Highbay LED fixtures are designed for 25-foot and higher ceiling applications in warehouses, gymnasiums, general manufacturing and general task areas. With an enclosed power supply housing and covered optics, these units are designed for durability in difficult installation locations.

PROJECT NAME
CATALOG NUMBER
NOTES
FIXTURE TYPE

FEATURES:

- Full polycarbonate lens cover
- Annular polished optic collimator for 70 degree beam angle
- Radial aluminum heat sink fins
- Enclosed wiring and driver compartment
- Slide out driver tray service feature enables the fixture to remain hanging
- 1/4" eyebolt attachment provided
- Dry rated

CONSTRUCTION:

- Aluminum housing
- Aluminum heat sink finning
- Polycarbonate lens
- Aluminum LED light engine
- Full paint after fabrication



DESIGNLIGHTS
CONSORTIUM

Watts Nominal	Order Number	Model Number	Delivered Lumens	CRI	Lamp Life (Hrs.)	Dimensions (Dia."xH")	CCT
150	71619	MLHB150LED50N	11,460	78	50,000	15" x 9"	5000

Installation instructions available online: Specifications are subject to change without notice



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Revised: 10-16-12



MLHB MaxLED Highbay Fixtures

MLHB150LED50N



SPECIFICATIONS:

Item	Specification	MLHB150LED50N
General Performance	Spacing Criteria	Available upon request
	Color Temperature (CCT)	5000K
	Lumens Delivered	11,460
	Efficacy	80 lumen/watt
	Color Consistency	Proprietary binning for uniform color
	CRI	78
	Lumen Maintenance (L70)	50,000 hours
Electrical	Power Factor	Over 95 %
	Input Voltage	120V-240V, 277V 50/60 Hz
	Power Consumption	150 Watts nom. (144W Cons.)
Physical	Dimensions	15" Dia. x 9" H
	Weight	13.75 lbs.
	Housing	Aluminum
	Lens	Polycarbonate
	Mounting	1/4 Eyebolt
	Operating Temperature	-30°F to 130°F
	Humidity	20% - 85% RH, non condensing
Certification	Certification	ETL, FCC, LM79, LM80
	Material Usage	RoHS compliant; no mercury
	Environment	Indoor / Outdoor / IP64
	LED Class	L70 rated to 50,000 hours
	Warranty	5 year

DIMENSIONS:



Installation instructions available online; specifications are subject to change without notice

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Revised: 10-16-12



BLHR43UN50

BayMAX™ HIGH/LOW BAY RETROFIT LAMP

The compact and lightweight BayMAX™ retrofit lamps allow for quick updating for up to 175 watt HID and incandescent fixtures. This retrofit lamp is ideal for high/low bay applications, gymnasiums, auditoriums, auto show rooms, refrigerated storage and areas where changing lamps is difficult or disruptive to operations.

FEATURES:

- 3360 lumen output at 5000K
- Efficacy: 81 lm/w
- 80 degree beam spread
- Universal voltage 120-277V 50/60 Hz
- 50,000 hour L70 rated lamp life
- Instant on and non-dimming
- IP20 rated for Dry Location
- Ultra-light weight: 1.8 lbs.
- CRI: 73
- Mogul base
- Profile fits many legacy housings

CONSTRUCTION:

- Die cast magnesium alloy heat sink
- Polycarbonate body
- Polycarbonate optics



PROJECT NAME
CATALOG NUMBER
NOTES
FIXTURE SCHEDULE



Luminaire Ordering Information:

ORDER CODE	MODEL NUMBER	SERIES	TECH	TYPE	WATTAGE	VOLTAGE	DISTRIBUTION	CCT*
71744	BLHR43UN50	B = BayMAX	L = LED	HR = High/Low Bay Retrofit	43 = 42W, 3360 lm	U = Universal 120-277V, 50/60Hz	N = Narrow 80 degrees	50 = 5000K

Lighting layouts and spacing criteria available upon request



BLHR43UN50

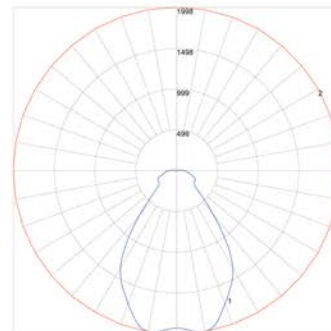
BayMAX™ HIGH/LOW BAY RETROFIT LAMP



SPECIFICATIONS:

Item	Specification	MLHBR45LED50N
General Performance	Spacing Criteria	Available upon request
	Color Temperature	5000K
	CRI	73
	Lumens Delivered	3360 lm.
	Efficacy	81 lumen/watt
	Color Consistency	Proprietary binning for uniform color
Electrical	Lumen Maintenance (L70)	50,000 hours
	Power Factor	Over 99%
	Input Voltage	120-277VAC 50/60 Hz
Physical	Power Consumption	42 Watts
	Dimensions	6.19" Dia. x 9.06" MOL
	Weight	1.83 lbs.
	Housing	Polycarbonate, Magnesium Alloy
	Lens	Polycarbonate
	Mounting	E39 mogul socket
	Operating Temperature	-4°F to 113°F
Certification	Humidity	20%-85% RH, non condensing
	Certification	cULus, FCC, LM-79, LM-80
	Material Usage	RoHS compliant; no mercury
	Environment	Indoor/IP20, Dry location
	LED Class	L70 rated to 50,000 hours
Warranty	3 Year	

Lighting layouts and spacing criteria available upon request



Maximum Candela = 1997.727 Located At Horizontal Angle = 0, Vertical Angle = 10
 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.) BLUE
 # 2 - Horizontal Plane Through Vertical Angle (10) (Through Max. Cd.) RED



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Revised: 09-04-12



LED Element Flood

Element ELLF LED Flood Light Series



APPLICATIONS:

Ideal for car dealerships, youth sports parks and general area illumination, the MaxLED Element ELLF Series Flood Light is a unique and flexible system, comprised of self-contained modular elements, representing variability in both lumen output and optics capabilities. The Element Flood Light Series can be specified in one-, two-, or three-unit configurations with up to three optic collimator variations available.

FEATURES:

- High lumen output:
 - 135 watts at 11,700 lumens (250-320 watt HPS/MH equiv.)
 - 270 watts at 23,400 lumens (500 watt HPS/MH equiv.)
 - 405 watts at 35,100 lumens (1000 watt MH equiv.)
- Modular housing design – up to three modules can be combined
- 22- and 55-degree collimators can be specified, in addition to 120-degree open beam for various types of applications
- IP65 rated unit with heat sinking across the full module enables a long fixture life
- Discrete J-Box on each frame enables easy field install
- 120-277 universal voltages
- CRI: >75
- CCT: 5000K (nominal)
- 50,000 hour life (L70)
- Twin drivers guard against full power outage

CONSTRUCTION:

- Steel frame work with aluminum heat sink fins
- Post paint after fabrication for durable finish
- Stainless steel bushing and adjustment plates
- Polycarbonate lens seals module
- Polished and plated optical collimators
- 6'-18/3 shielded power feed cord included
- Yoke mount includes 270 deg. pivot base plate and integrated arm with side protractor for field aiming

PROJECT NAME
CATALOG NUMBER
NOTES
FIXTURE SCHEDULE



ELLF135U



ELLF270U



ELLF405U

ORDERING MODEL LOGIC: **Typical Order Example: ELLF135UW50*****

SERIES	TECH	TYPE	WATTAGE	VOLTAGE	DISTRIBUTION	CCT
EL = Element Flood	L = LED	F = Flood	135 = 135W; 11700 lm 270 = 270W; 23400 lm 405 = 405W; 35100 lm	U = 120-277V 3* = 347V 4* = 480V	N* = Narrow 22 degrees M = Medium 55 degrees W = Wide 120 degrees	50 = 5000K

*22 degree collimator is special order only, contact MaxLite for MOQ

**For 347V and 480V special order only, contact MaxLite for MOQ

***Item ordering is typically by common beam type, for applications with mixed beam angles on same carriages contact MaxLite.

Installation instructions available online: specifications are subject to change without notice

MaxLite®: 1-800-555-5629 | Fax: 973-244-7333 | Web: www.maxlite.com | E-mail: info@maxlite.com



Revised: 10-12-12



Element ELLF LED Flood Light Series



SPECIFICATIONS:

Item	Specification	ELLF135U	ELLF270U	ELLF405U
General Performance	Spacing Criteria	Available upon request	Available upon request	Available upon request
	Color Temperature (CCT)	5000K	5000K	5000K
	CRI	75	75	75
	Lumens Delivered	11,700	23,400	35,100
	Efficacy	86.6 lumen/watt	86.6 lumen/watt	86.6 lumen/watt
	Color Consistency	Proprietary binning for uniform color	Proprietary binning for uniform color	Proprietary binning for uniform color
Electrical	Lumen Maintenance (L70)	50,000 hours	50,000 hours	50,000 hours
	Power Factor	Over 99 %	Over 99 %	Over 99 %
	Input Voltage	120V-277V 50/60 Hz	120V-277V 50/60 Hz	120V-277V 50/60 Hz
Controls	Power Consumption	135 Watts	270 Watts	405 Watts
	Controls	Compatible with Dusk-to-Dawn Photocells and Motion Sensors	Compatible with Dusk-to-Dawn Photocells and Motion Sensors	Compatible with Dusk-to-Dawn Photocells and Motion Sensors
Physical	Dimensions	593W X 196H X 222D (23.35W X 7.7H X 8.8D)	593W X 333H X 222D (23.35W X 13.1H X 8.8D)	593W X 484H X 222D (23.35W X 19.1H X 8.8D)
	Weight	14 lbs.	26 lbs.	37 lbs.
	Housing	Aluminum and Steel, with Powder Coat Paint		
	Lens	Optical Polycarbonate		
	Mounting	Module is Trunion mounted to carriage with 270 deg. pivoting bolt pattern		
	Operating Temperature	-30°C to 50°C (-22°F to 122°F)		
Certification	Humidity	20% - 85% RH, non condensing		
	Certification	UL / cUL / cETLus / IP 65		
	Material Usage	RoHS compliant; no mercury		
	Environment	Outdoor		
	LED Class	L70 rated to 50,000 hours		
Warranty	5 Years			

ORDERING INFORMATION:

Watts	Order Number	Model Number	Voltage	Distribution	Lamp Life (Hrs.)	Dimensions (W"xH"xD")	CCT
135	71928	ELLF135UN50	UNIVERSAL 120-277V	NARROW (22 DEG.)	50,000	23.35" x 7.7" x 8.8"	5000
135	71929	ELLF135UM50	UNIVERSAL 120-277V	MEDIUM (55 DEG.)	50,000	23.35" x 7.7" x 8.8"	5000
135	71930	ELLF135UW50	UNIVERSAL 120-277V	WIDE (120 DEG.)	50,000	23.35" x 7.7" x 8.8"	5000
270	71931	ELLF270UN50	UNIVERSAL 120-277V	NARROW (22 DEG.)	50,000	23.35" x 13.1" x 8.8"	5000
270	71932	ELLF270UM50	UNIVERSAL 120-277V	MEDIUM (55 DEG.)	50,000	23.35" x 13.1" x 8.8"	5000
270	71933	ELLF270UW50	UNIVERSAL 120-277V	WIDE (120 DEG.)	50,000	23.35" x 13.1" x 8.8"	5000
405	71934	ELLF405UN50	UNIVERSAL 120-277V	NARROW (22 DEG.)	50,000	23.35" x 19.1" x 8.8"	5000
405	71935	ELLF405UM50	UNIVERSAL 120-277V	MEDIUM (55 DEG.)	50,000	23.35" x 19.1" x 8.8"	5000
405	71936	ELLF405UW50	UNIVERSAL 120-277V	WIDE (120 DEG.)	50,000	23.35" x 19.1" x 8.8"	5000

Installation instructions available online: specifications are subject to change without notice

MaxLite®: 1-800-555-5629 | Fax: 973-244-7333 | Web: www.maxlite.com | E-mail: info@maxlite.com

Revised: 10-12-12



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- To browse previous MaxLite Webinars, visit: <http://www.maxlite.com/webinar>
- Check/Subscribe to our YouTube channel

Class Is In Session! 24/7

- Visit the MaxLite Lighting & Technology University at: <http://university.maxlite.com> to learn about all of MaxLite's products and gain access to many other lighting resources!



Thanks For Attending!

QUESTIONS & ANSWERS:

Thank you everyone for your attention.

This webinar session will be left open for the next 10 minutes to allow time for questions. We will answer as many questions as we have time for right now, but ALL questions will be answered via e-mail within the next 24 hours.

Thanks again for attending, and we hope to speak to you again, soon!

FOR MORE INFORMATION ABOUT OTHER MAXLITE PRODUCTS; OR FOR LIGHTING QUESTIONS IN GENERAL; PLEASE CONTACT:

info@maxlite.com

www.maxlite.com

1-800-555-5629

Or contact your MaxLite Representative or MaxLite's Regional Sales Manager.