

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P943323

Luminaire Tested: **GALN-SB7D-730-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-730-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71592 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



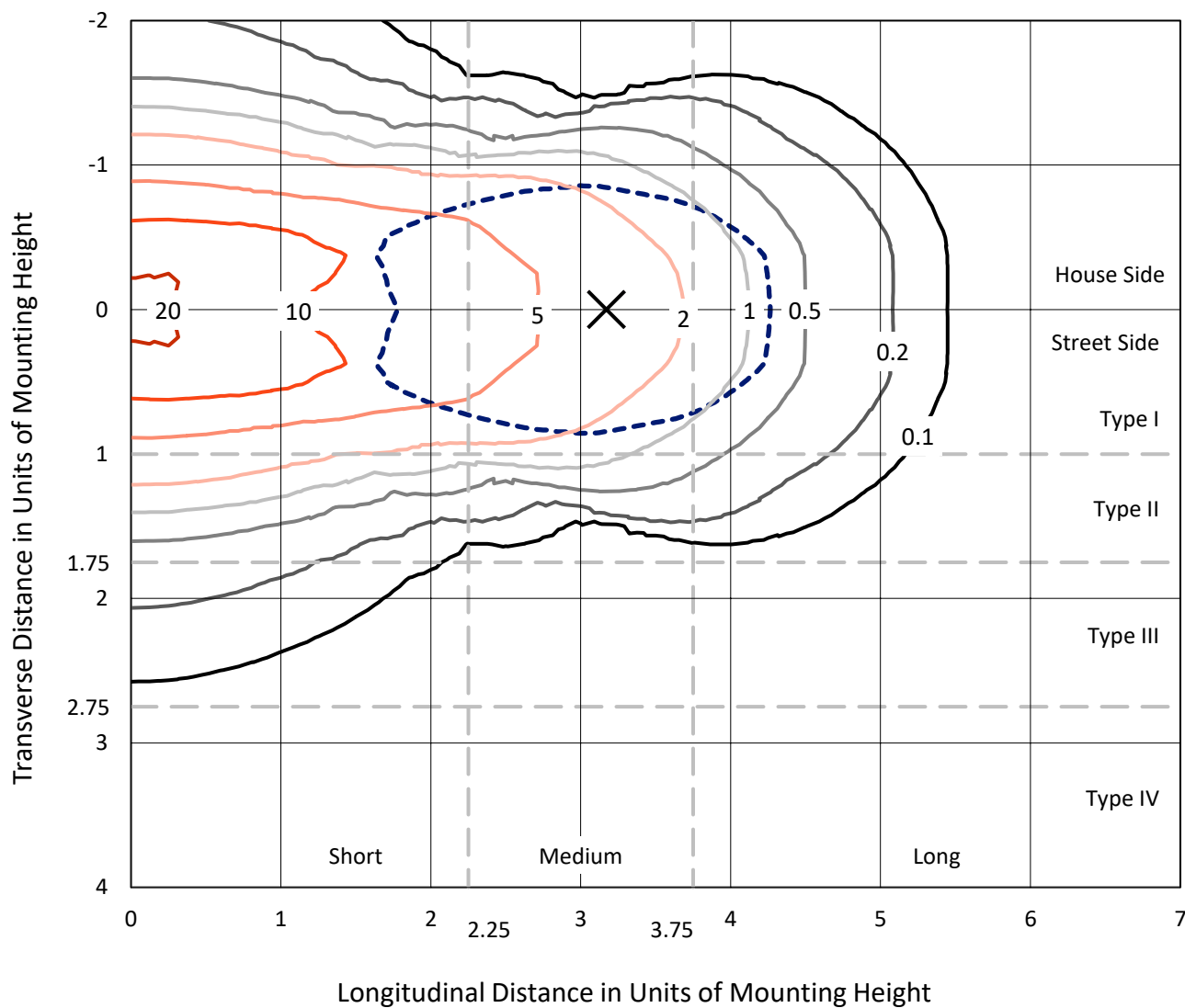
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

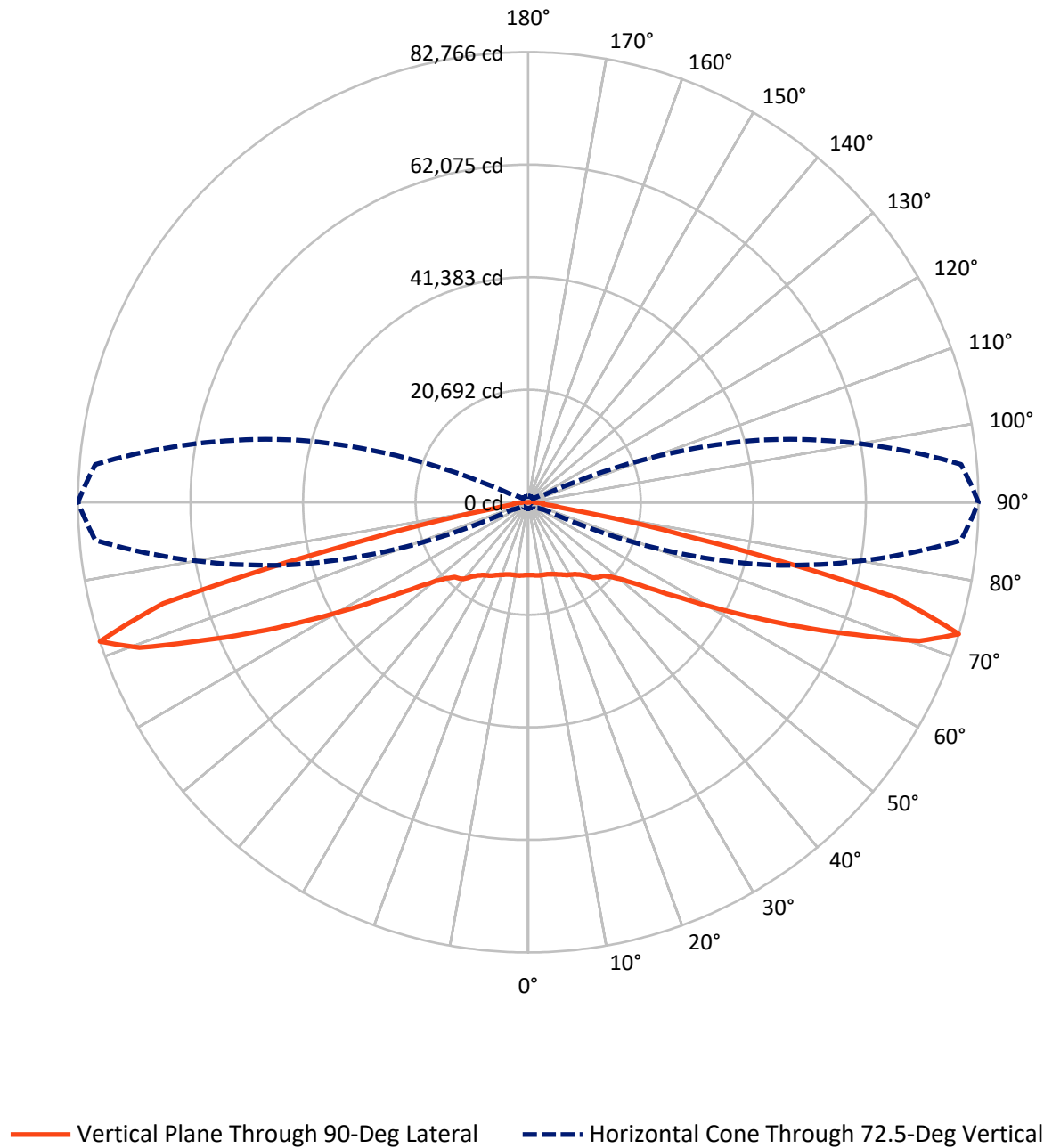


Based on 25 foot mounting height. Maximum calculated value = 21.4 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	35796.0	0.0	35796.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	35796.0	0.0	35796.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	71592.0	0.0	71592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1297.1	1.8
10°-20°	3966.1	5.5
20°-30°	6613.1	9.2
30°-40°	9095.1	12.7
40°-50°	11107.6	15.5
50°-60°	12847.1	17.9
60°-70°	15318.1	21.4
70°-80°	10691.0	14.9
80°-90°	656.6	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	71592.0	100.0
0°-180°	71592.0	100.0

Coefficient of Utilization



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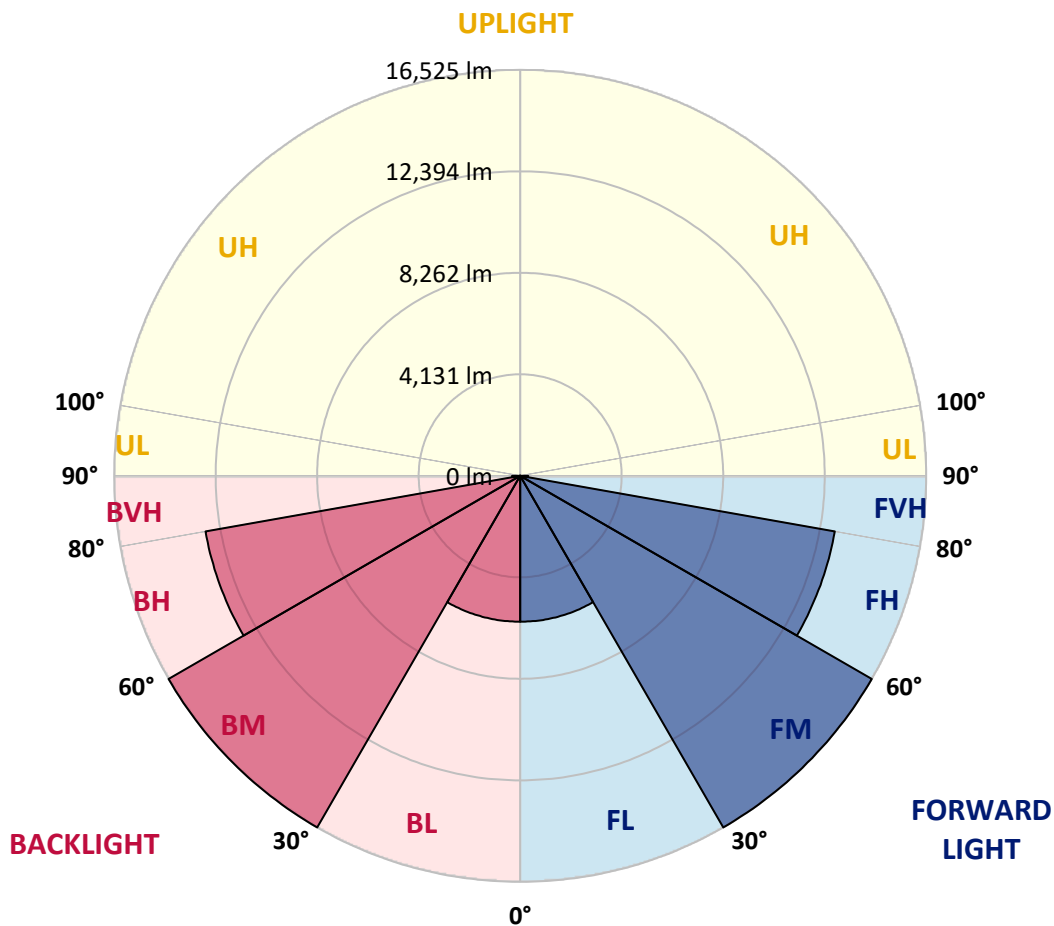
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5938.2	8.3			
FM	(30°-60°)	16524.9	23.1			
FH	(60°-80°)	13004.6	18.2			G5
FVH	(80°-90°)	328.3	0.5			G3/500
BL	(0°-30°)	5938.2	8.3	B5		
BM	(30°-60°)	16524.9	23.1	B5		
BH	(60°-80°)	13004.6	18.2	B5		G5
BVH	(80°-90°)	328.3	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	13377.7	13377.7	13377.7	13377.7	13377.7	13377.7	13377.7	13377.7	13377.7	13377.7	13377.7
2.5°	13389.1	13404.4	13404.4	13392.9	13419.6	13396.7	13396.7	13385.3	13396.7	13385.3	13385.3
5°	13457.6	13476.6	13484.3	13480.5	13514.7	13495.7	13495.7	13480.5	13484.3	13472.8	13472.8
7.5°	13587.0	13613.6	13628.8	13647.9	13697.3	13674.5	13659.3	13613.6	13594.6	13564.2	13564.2
10°	13628.8	13659.3	13708.7	13807.7	13921.8	13925.6	13880.0	13765.8	13678.3	13609.8	13598.4
12.5°	13499.5	13541.3	13644.1	13845.7	14100.6	14203.4	14131.1	13940.8	13769.6	13647.9	13628.8
15°	13335.9	13381.5	13537.5	13841.9	14218.6	14458.3	14450.7	14199.6	13925.6	13735.4	13704.9
17.5°	13080.9	13126.6	13351.1	13777.2	14309.9	14705.6	14812.1	14553.4	14169.1	13914.2	13872.3
20°	12620.6	12662.4	12974.4	13571.8	14340.3	14968.1	15245.9	15017.6	14538.2	14192.0	14127.3
22.5°	12023.2	12087.9	12453.2	13217.9	14268.0	15242.1	15740.5	15584.5	14968.1	14488.7	14401.2
25°	11384.0	11452.5	11878.6	12784.2	14081.6	15439.9	16326.5	16227.5	15455.1	14857.8	14736.0
27.5°	10832.3	10904.6	11368.8	12354.2	13792.4	15516.0	16904.8	16954.2	16044.9	15264.9	15135.5
30°	10398.6	10467.0	10961.7	12008.0	13419.6	15439.9	17410.8	17753.3	16646.1	15618.8	15432.3
32.5°	9923.0	10010.5	10531.7	11585.7	12978.2	15257.3	17852.2	18616.9	17342.3	15999.2	15763.3
35°	9321.8	9401.7	9949.6	11007.3	12399.9	14964.3	18221.2	19575.8	18339.2	16577.6	16315.0
37.5°	8591.3	8667.4	9211.5	10284.4	11825.4	14553.4	18502.8	20656.3	19526.3	17410.8	17060.8
40°	7856.9	7929.2	8439.1	9477.8	11136.7	14028.3	18601.7	21714.1	20888.4	18556.1	18183.2
42.5°	7183.5	7248.2	7716.2	8682.6	10364.3	13358.7	18472.4	22634.8	22109.8	19355.1	18875.7
45°	6563.3	6620.4	7035.1	7936.8	9561.5	12544.5	18084.3	23624.1	23563.2	19925.8	19279.0
47.5°	5855.6	5912.7	6342.6	7213.9	8758.7	11589.5	17426.0	24598.1	25583.6	21219.4	20473.7
50°	4991.9	5041.4	5482.7	6380.7	7925.4	10573.6	16512.9	25362.9	28132.8	23178.9	22242.9
52.5°	3968.4	4021.7	4451.6	5349.6	6936.2	9481.6	15310.6	25861.3	31077.7	26040.1	24887.3
55°	2952.5	2990.6	3363.5	4170.1	5711.0	8237.4	13803.9	26002.1	34418.3	29951.5	28509.5
57.5°	2142.1	2164.9	2404.6	3005.8	4329.9	6681.3	11973.7	25636.8	38394.4	34966.2	33151.3
60°	1735.0	1742.6	1814.9	2081.2	3009.6	4923.4	9763.1	24381.2	42709.0	41430.6	39143.9
62.5°	1575.2	1575.2	1594.2	1666.5	2035.6	3249.3	7088.4	21778.7	47335.7	49599.5	46536.7
65°	1464.9	1464.9	1472.5	1506.7	1605.6	2069.8	4474.5	17540.2	51235.6	59168.6	55295.3
67.5°	1365.9	1369.7	1365.9	1377.3	1434.4	1529.5	2594.9	12114.5	53335.9	69084.0	64902.5
70°	1263.2	1270.8	1251.8	1251.8	1297.4	1301.2	1624.7	6643.2	51593.3	77393.7	76294.1
72.5°	1141.4	1152.9	1122.4	1114.8	1149.1	1133.8	1221.3	3188.4	44295.6	79874.4	82766.1
75°	1034.9	1050.1	981.6	962.6	962.6	951.2	993.1	1636.1	28749.2	65157.4	69692.8
77.5°	939.8	970.2	859.9	799.0	783.8	749.5	810.4	1000.7	12574.9	30590.7	29955.3
80°	776.2	818.0	707.7	635.4	608.8	570.7	639.2	700.1	3740.1	7103.6	6803.0
82.5°	578.3	597.4	502.2	452.8	429.9	403.3	479.4	487.0	1217.5	2515.0	2842.2
85°	369.1	376.7	308.2	266.3	254.9	243.5	304.4	266.3	464.2	1849.1	2686.2
87.5°	129.4	148.4	117.9	106.5	114.1	95.1	140.8	79.9	129.4	1305.1	1617.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)