

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: P455716

Luminaire Tested: **GALN-SA6D-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36389 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 368
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

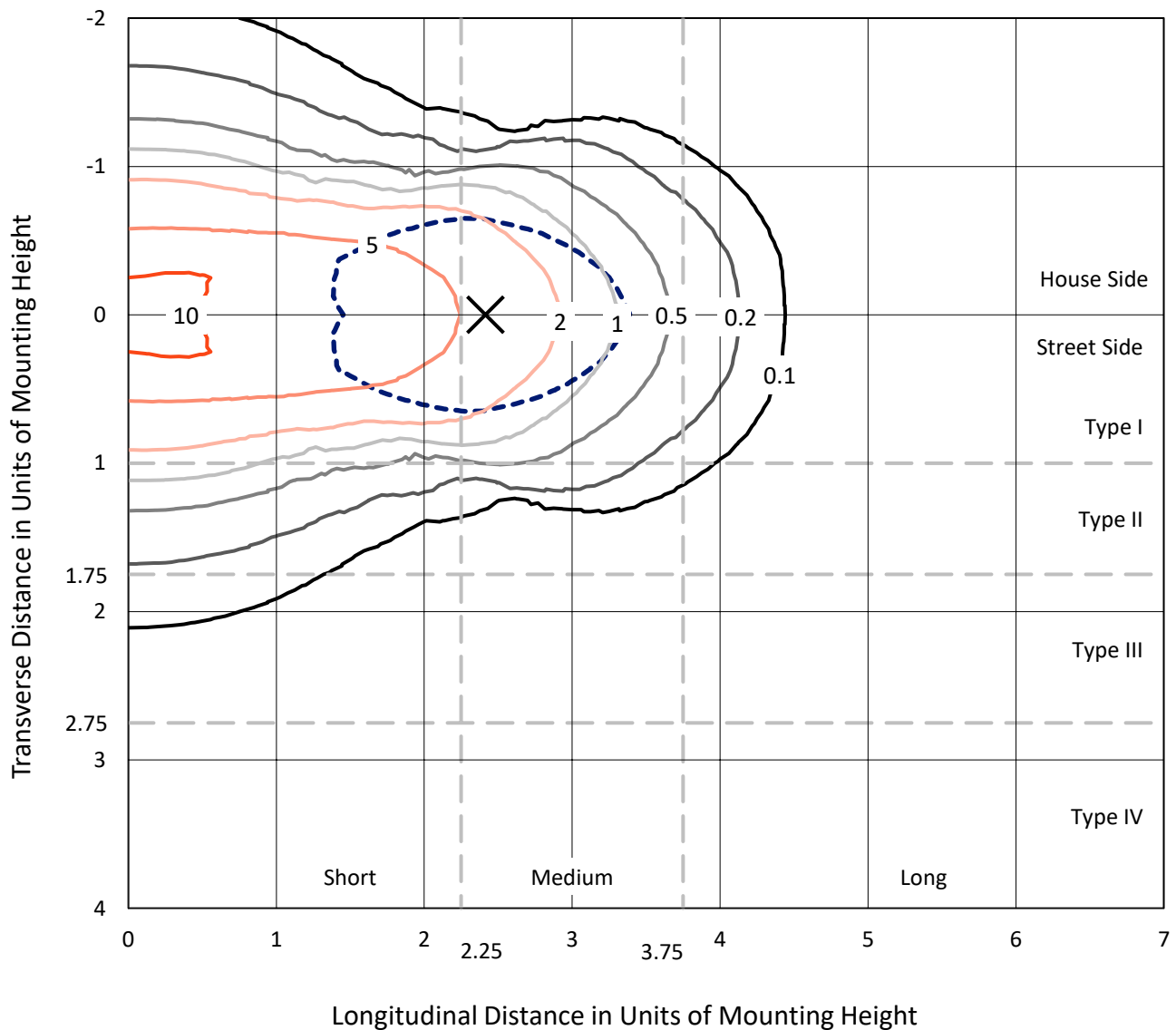


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

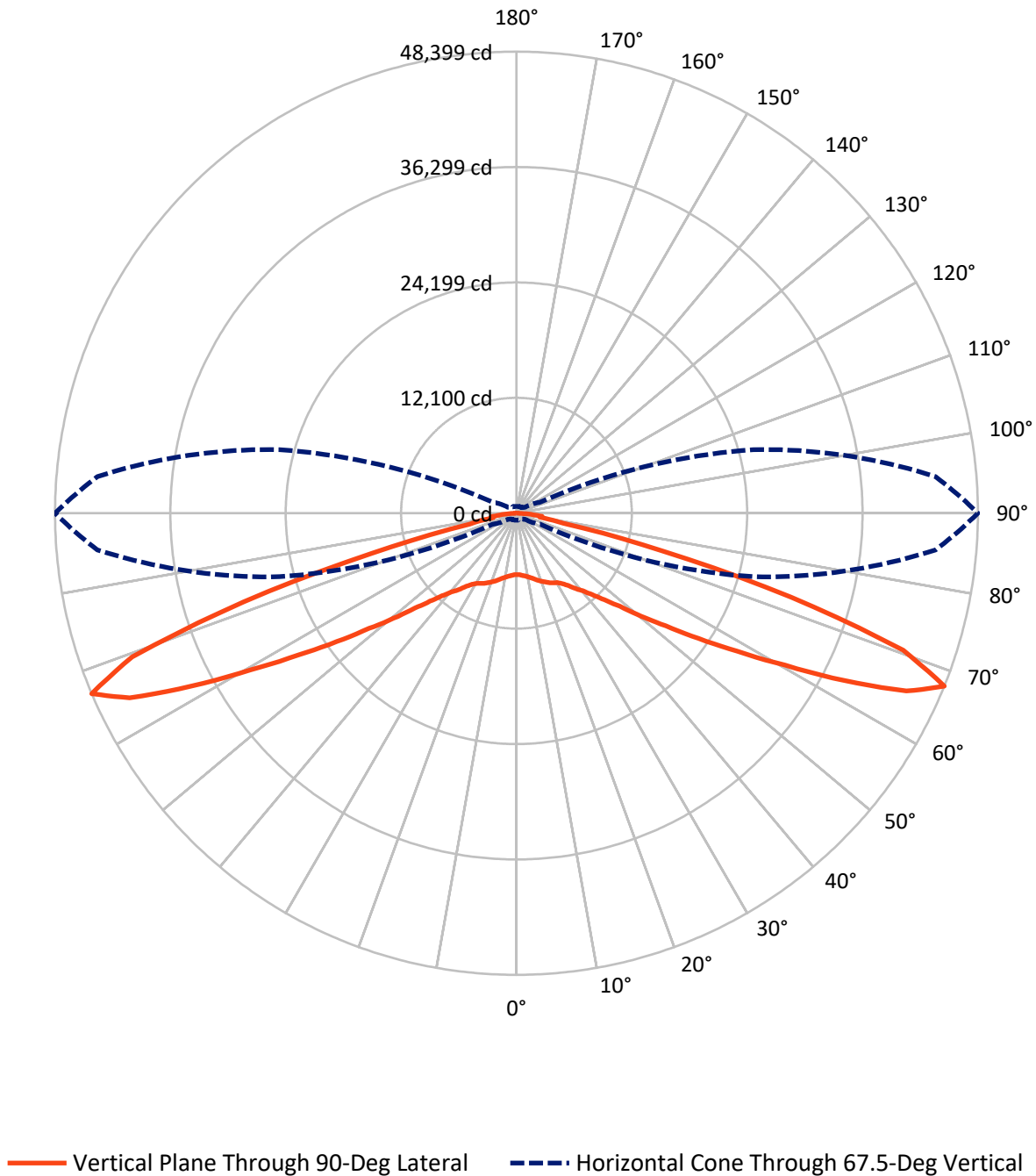


Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18194.5	0.0	18194.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18194.5	0.0	18194.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36389.0	0.0	36389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.3	1.8
10°-20°	2054.9	5.6
20°-30°	3439.4	9.5
30°-40°	4659.5	12.8
40°-50°	5902.0	16.2
50°-60°	7373.0	20.3
60°-70°	8666.7	23.8
70°-80°	3315.4	9.1
80°-90°	335.9	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°	36389.0	100.0
0°-180°	36389.0	100.0

Coefficient of Utilization



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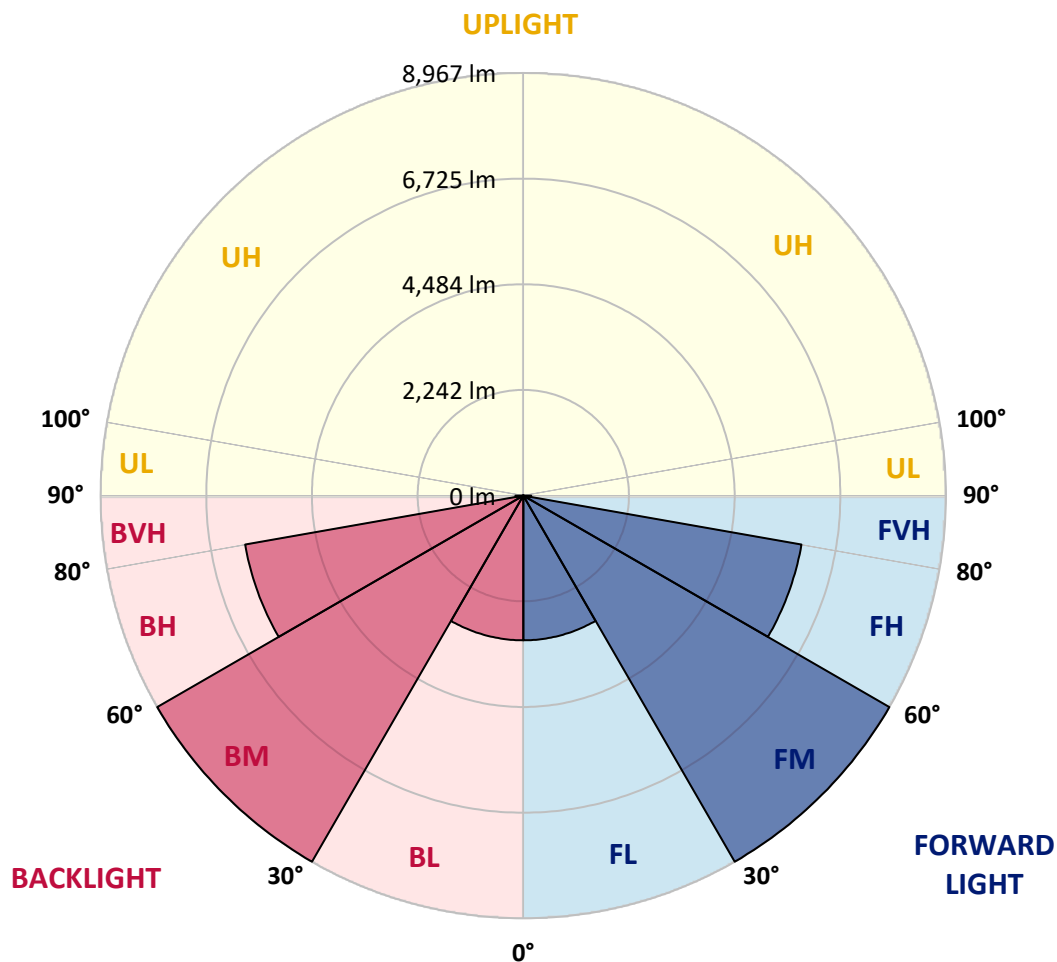
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3068.3	8.4			
FM	(30°-60°)	8967.2	24.6			
FH	(60°-80°)	5991.0	16.5			G3/7500
FVH	(80°-90°)	167.9	0.5			G2/225
BL	(0°-30°)	3068.3	8.4	B4/5000		
BM	(30°-60°)	8967.2	24.6	B5		
BH	(60°-80°)	5991.0	16.5	B5		G5
BVH	(80°-90°)	167.9	0.5			G2/225
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°	6442.0	6442.0	6442.0	6442.0	6442.0	6442.0	6442.0	6442.0	6442.0	6442.0	6442.0
2.5°	6524.6	6520.6	6522.6	6520.6	6526.6	6522.6	6498.4	6478.3	6462.1	6464.2	6458.1
5°	6663.6	6665.7	6667.7	6657.6	6671.7	6663.6	6625.4	6593.1	6560.9	6548.8	6544.8
7.5°	6778.5	6788.6	6794.6	6804.7	6828.9	6828.9	6808.7	6762.4	6691.8	6651.5	6649.5
10°	6893.3	6901.4	6919.5	6951.8	6992.1	7030.4	7022.3	6959.8	6869.2	6800.7	6784.5
12.5°	6933.6	6943.7	7004.2	7096.9	7187.5	7262.1	7262.1	7211.7	7094.8	6990.1	6959.8
15°	6792.6	6810.7	6919.5	7117.0	7354.8	7518.0	7554.3	7483.7	7358.8	7197.6	7161.3
17.5°	6512.5	6556.8	6716.0	7008.2	7403.1	7741.7	7846.4	7812.2	7651.0	7445.5	7403.1
20°	6212.3	6260.6	6429.9	6816.8	7362.8	7872.6	8176.9	8185.0	7985.5	7687.3	7624.8
22.5°	5881.8	5918.1	6135.7	6589.1	7241.9	7902.9	8461.0	8600.1	8330.1	7929.1	7840.4
25°	5511.1	5551.4	5779.0	6268.7	7014.2	7868.6	8721.0	9027.2	8690.7	8187.0	8074.1
27.5°	5156.4	5172.5	5416.3	5914.1	6714.0	7780.0	8912.4	9420.2	9089.7	8400.6	8257.5
30°	4815.9	4854.2	5069.8	5561.4	6369.4	7606.7	9077.6	9867.5	9518.9	8624.2	8440.9
32.5°	4455.2	4501.5	4735.3	5233.0	6024.9	7346.7	9178.4	10357.1	10117.4	8986.9	8791.5
35°	4108.6	4138.8	4374.6	4858.2	5688.4	7044.5	9196.5	10909.3	10889.1	9537.0	9277.1
37.5°	3754.0	3798.3	4036.1	4499.5	5331.7	6724.1	9105.8	11495.6	11820.0	10300.7	10020.6
40°	3413.4	3451.7	3685.5	4152.9	4926.7	6333.2	8890.2	12031.6	12906.1	11086.6	10689.6
42.5°	3042.7	3052.7	3308.6	3784.2	4529.7	5879.8	8579.9	12509.2	14117.2	12140.4	11646.8
45°	2621.5	2647.7	2885.5	3353.0	4074.3	5372.0	8158.8	12904.1	15652.6	13601.3	12928.3
47.5°	2200.4	2222.6	2440.2	2901.6	3576.6	4789.7	7509.9	13250.7	17228.3	15457.1	14574.6
50°	1789.3	1801.4	1978.7	2387.8	3016.5	4177.1	6706.0	13361.5	19009.6	18084.7	16958.3
52.5°	1414.5	1432.7	1567.7	1888.1	2418.0	3453.7	5837.5	13087.5	21089.1	21199.9	19612.1
55°	1146.5	1152.6	1253.3	1489.1	1890.1	2696.1	4789.7	12323.8	23325.8	25191.7	23166.6
57.5°	987.4	991.4	1047.8	1178.8	1454.8	2033.1	3715.7	10879.0	25334.7	29868.5	27265.1
60°	896.7	898.7	930.9	1007.5	1152.6	1559.6	2661.8	8839.8	27317.5	35073.3	32359.0
62.5°	840.3	840.3	862.4	904.7	975.3	1196.9	1928.4	6377.5	28675.6	40354.6	38637.8
65°	785.9	785.9	802.0	832.2	870.5	979.3	1424.6	4159.0	28641.3	44201.3	44952.9
67.5°	723.4	723.4	735.5	765.7	787.9	842.3	1100.2	2724.3	25727.6	44116.6	48398.5
70°	648.8	648.8	665.0	691.1	709.3	743.5	868.5	1863.9	18900.8	37668.6	43042.6
72.5°	574.3	576.3	586.4	612.6	626.7	646.8	721.4	1305.7	11594.4	25649.1	30096.2
75°	491.7	495.7	505.8	532.0	544.1	552.1	608.5	930.9	5865.7	13829.0	15745.3
77.5°	397.0	405.0	411.1	439.3	447.3	459.4	501.7	673.0	2575.2	4969.0	5013.3
80°	290.2	300.2	318.4	344.6	350.6	358.7	382.9	477.6	1166.7	2268.9	2464.4
82.5°	213.6	227.7	205.5	239.8	239.8	229.7	270.0	320.4	536.0	2246.7	2688.0
85°	116.9	118.9	106.8	122.9	131.0	129.0	143.1	157.2	259.9	1499.2	1545.5
87.5°	28.2	30.2	32.2	38.3	46.3	46.3	50.4	44.3	84.6	485.6	278.1
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)