

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: P457572

Luminaire Tested: **GALN-SA8D-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457572
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-SA8D-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 49552 lumens
Efficiency: N/A
Efficacy: 100.5 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): 493
Input Voltage (V): NR
Input Current (A_{in}): 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

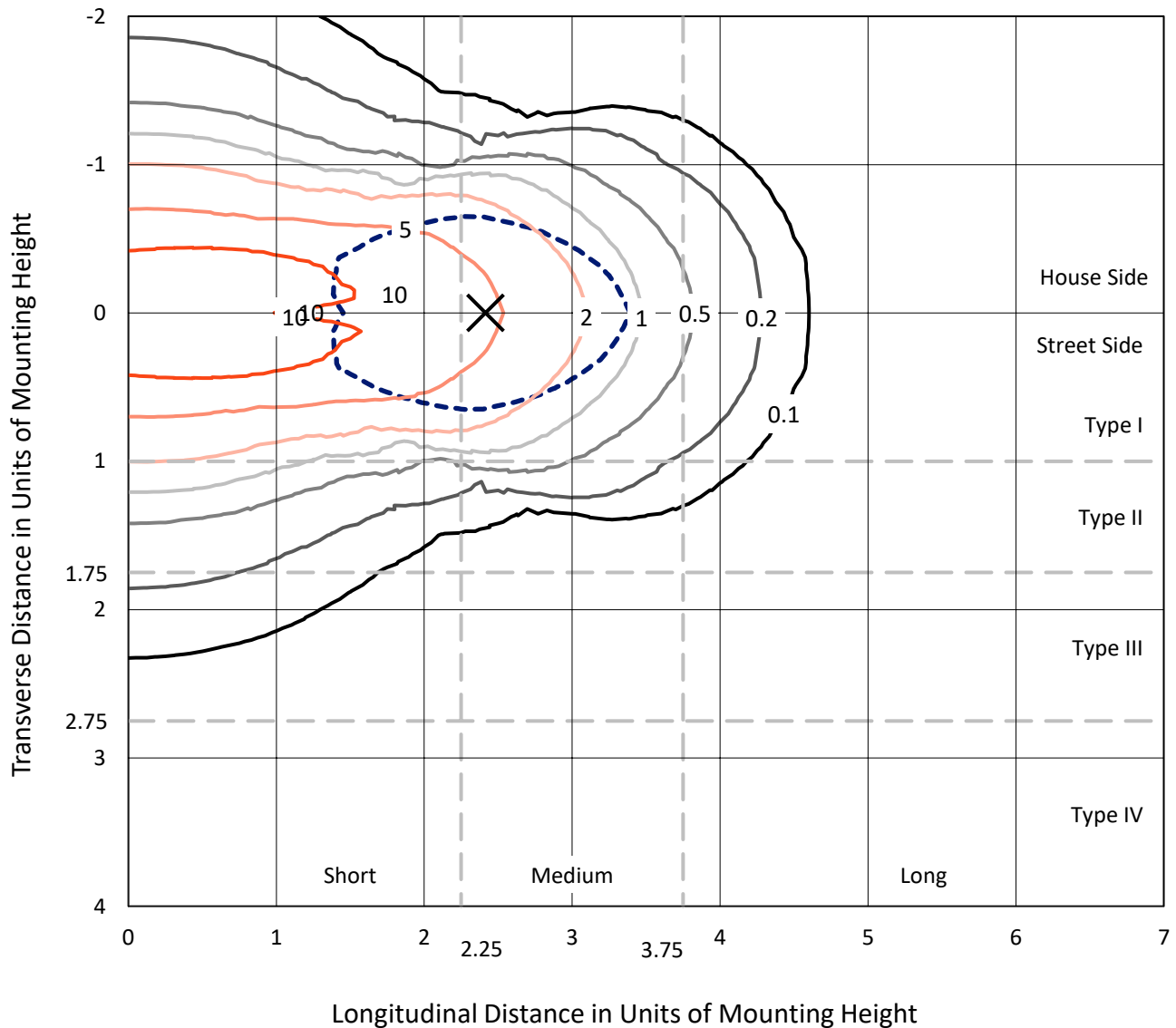


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

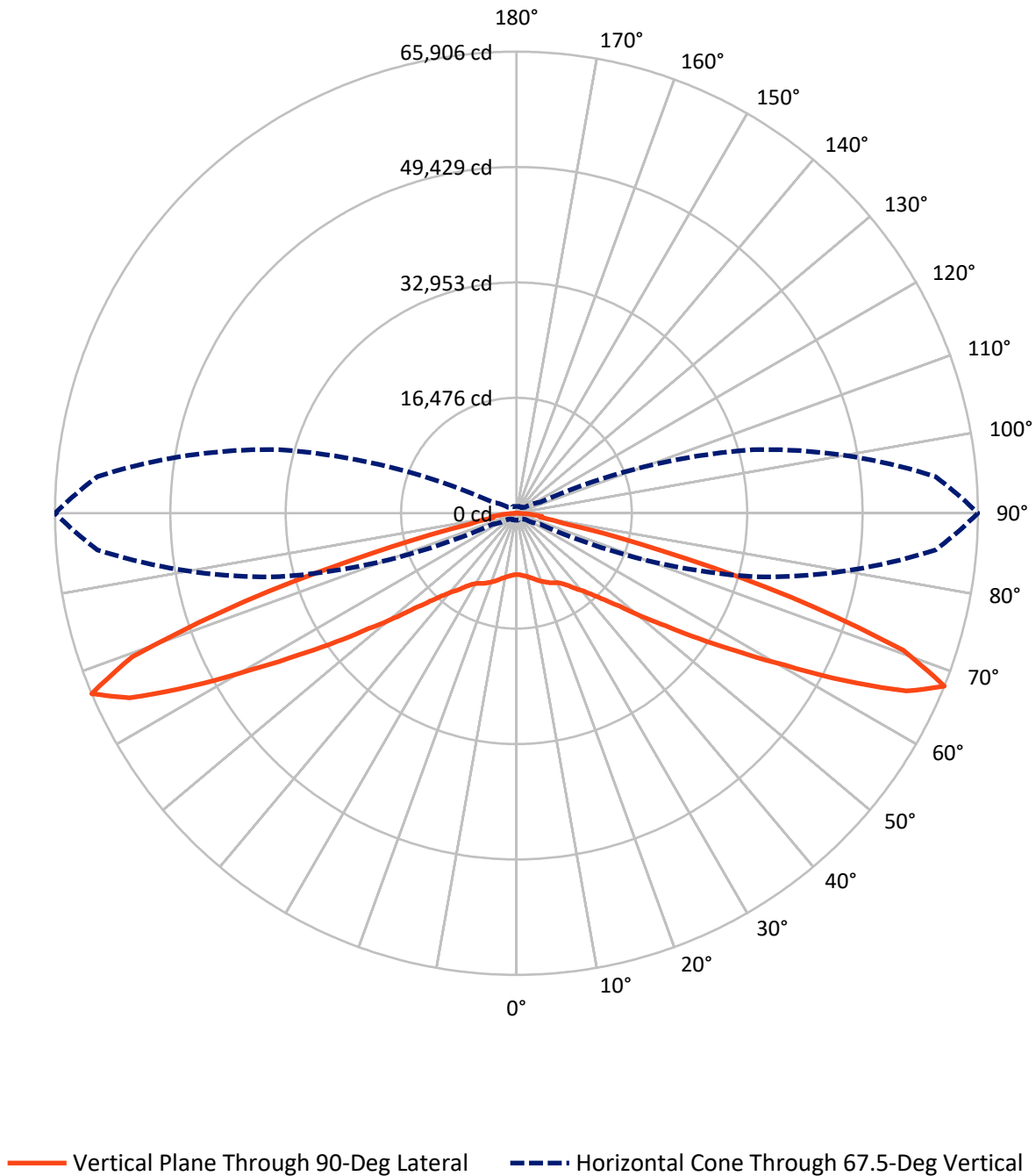


Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24776.0	0.0	24776.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24776.0	0.0	24776.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	49552.0	0.0	49552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	874.6	1.8
10°-20°	2798.2	5.6
20°-30°	4683.5	9.5
30°-40°	6344.9	12.8
40°-50°	8036.9	16.2
50°-60°	10040.1	20.3
60°-70°	11801.7	23.8
70°-80°	4514.7	9.1
80°-90°	457.4	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°	49552.0	100.0
0°-180°	49552.0	100.0

Coefficient of Utilization



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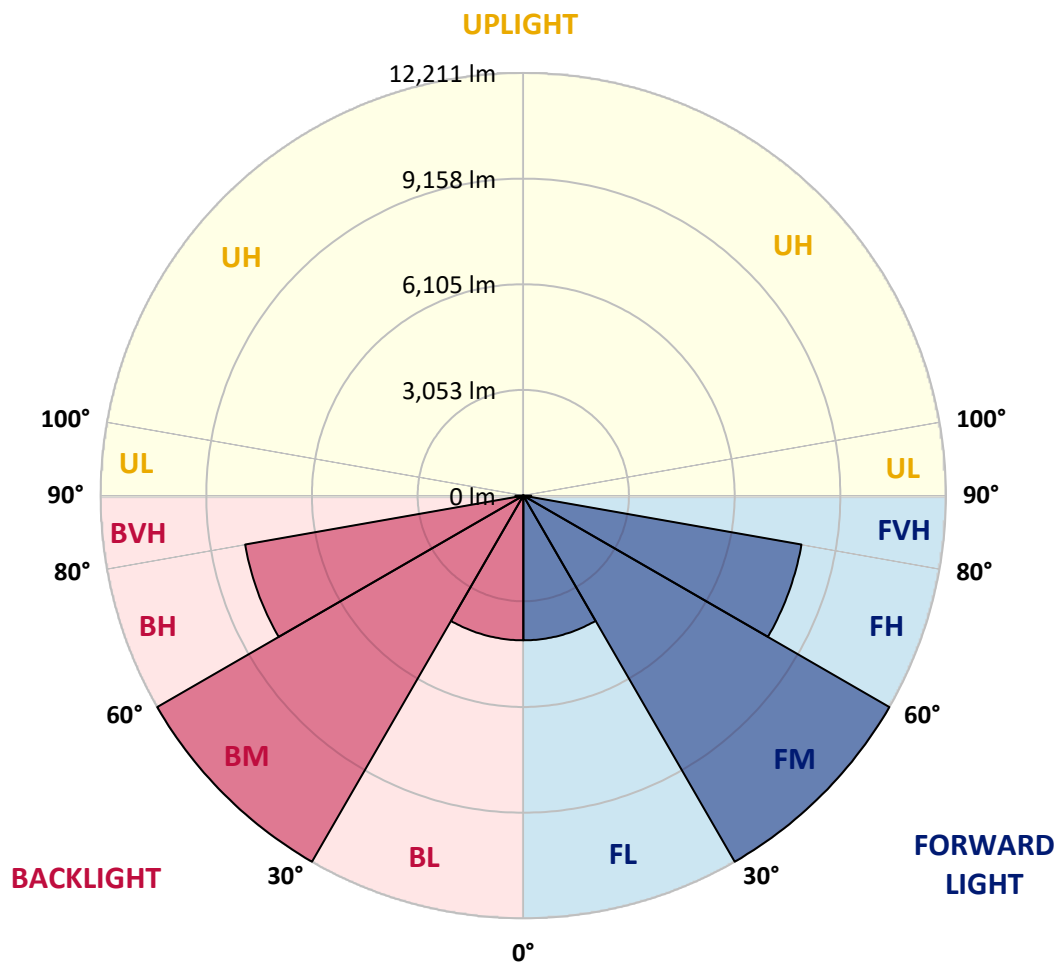
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4178.2	8.4			
FM	(30°-60°)	12211.0	24.6			
FH	(60°-80°)	8158.2	16.5			G4/12000
FVH	(80°-90°)	228.7	0.5			G3/500
BL	(0°-30°)	4178.2	8.4	B4/5000		
BM	(30°-60°)	12211.0	24.6	B5		
BH	(60°-80°)	8158.2	16.5	B5		G5
BVH	(80°-90°)	228.7	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°	8772.2	8772.2	8772.2	8772.2	8772.2	8772.2	8772.2	8772.2	8772.2	8772.2	8772.2
2.5°	8884.7	8879.3	8882.0	8879.3	8887.5	8882.0	8849.1	8821.6	8799.7	8802.4	8794.2
5°	9074.1	9076.8	9079.6	9065.8	9085.1	9074.1	9021.9	8978.0	8934.1	8917.7	8912.2
7.5°	9230.5	9244.2	9252.4	9266.1	9299.1	9299.1	9271.6	9208.5	9112.5	9057.6	9054.9
10°	9386.9	9397.9	9422.6	9466.5	9521.3	9573.5	9562.5	9477.4	9354.0	9260.7	9238.7
12.5°	9441.8	9455.5	9537.8	9664.0	9787.5	9889.0	9889.0	9820.4	9661.3	9518.6	9477.4
15°	9249.7	9274.4	9422.6	9691.5	10015.2	10237.5	10286.9	10190.8	10020.7	9801.2	9751.8
17.5°	8868.3	8928.6	9145.4	9543.3	10081.1	10542.1	10684.7	10638.1	10418.6	10138.7	10081.1
20°	8459.4	8525.3	8755.8	9282.6	10026.2	10720.4	11134.7	11145.7	10874.1	10468.0	10382.9
22.5°	8009.4	8058.8	8355.2	8972.6	9861.6	10761.6	11521.6	11711.0	11343.3	10797.2	10676.5
25°	7504.6	7559.4	7869.5	8536.3	9551.5	10714.9	11875.6	12292.7	11834.4	11148.5	10994.8
27.5°	7021.6	7043.6	7375.6	8053.3	9142.7	10594.2	12136.3	12827.7	12377.7	11439.3	11244.5
30°	6557.9	6610.1	6903.7	7573.2	8673.5	10358.2	12361.3	13436.9	12962.2	11743.9	11494.2
32.5°	6066.8	6129.9	6448.2	7125.9	8204.3	10004.3	12498.5	14103.6	13777.1	12237.8	11971.6
35°	5594.8	5636.0	5957.0	6615.5	7746.0	9592.7	12523.2	14855.5	14828.0	12986.9	12632.9
37.5°	5111.9	5172.3	5496.0	6127.1	7260.4	9156.4	12399.7	15653.9	16095.7	14026.8	13645.4
40°	4648.2	4700.3	5018.6	5655.2	6708.8	8624.1	12106.1	16383.8	17574.7	15096.9	14556.4
42.5°	4143.3	4157.0	4505.5	5153.0	6168.3	8006.7	11683.5	17034.1	19223.8	16532.0	15859.7
45°	3569.8	3605.5	3929.3	4565.8	5548.2	7315.2	11110.0	17571.9	21314.6	18521.3	17604.9
47.5°	2996.3	3026.5	3322.9	3951.2	4870.4	6522.2	10226.5	18043.9	23460.3	21048.5	19846.6
50°	2436.6	2453.0	2694.5	3251.5	4107.6	5688.1	9131.7	18194.8	25885.9	24626.5	23092.7
52.5°	1926.2	1950.9	2134.8	2571.0	3292.7	4703.0	7949.1	17821.6	28717.7	28868.6	26706.4
55°	1561.3	1569.5	1706.7	2027.7	2573.8	3671.3	6522.2	16781.7	31763.4	34304.2	31546.6
57.5°	1344.5	1350.0	1426.8	1605.2	1981.1	2768.6	5059.8	14814.3	34499.0	40672.8	37127.7
60°	1221.0	1223.8	1267.7	1371.9	1569.5	2123.8	3624.7	12037.5	37199.0	47760.3	44064.3
62.5°	1144.2	1144.2	1174.4	1232.0	1328.0	1629.9	2625.9	8684.4	39048.4	54952.1	52614.3
65°	1070.1	1070.1	1092.1	1133.2	1185.4	1333.5	1939.9	5663.4	39001.8	60190.2	61213.7
67.5°	985.1	985.1	1001.5	1042.7	1072.9	1147.0	1498.2	3709.8	35034.1	60074.9	65905.7
70°	883.5	883.5	905.5	941.2	965.9	1012.5	1182.6	2538.1	25737.8	51294.5	58612.4
72.5°	782.0	784.8	798.5	834.1	853.4	880.8	982.3	1778.0	15788.4	34927.1	40982.9
75°	669.5	675.0	688.7	724.4	740.9	751.8	828.7	1267.7	7987.5	18831.4	21440.8
77.5°	540.5	551.5	559.8	598.2	609.1	625.6	683.2	916.5	3506.7	6766.5	6826.8
80°	395.1	408.8	433.5	469.2	477.4	488.4	521.3	650.3	1588.7	3089.6	3355.8
82.5°	290.9	310.1	279.9	326.5	326.5	312.8	367.7	436.3	729.9	3059.4	3660.4
85°	159.1	161.9	145.4	167.4	178.4	175.6	194.8	214.0	354.0	2041.5	2104.6
87.5°	38.4	41.2	43.9	52.1	63.1	63.1	68.6	60.4	115.2	661.3	378.7
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)