

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: P534410

Luminaire Tested: **GALN-SA9D-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49189 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 552
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

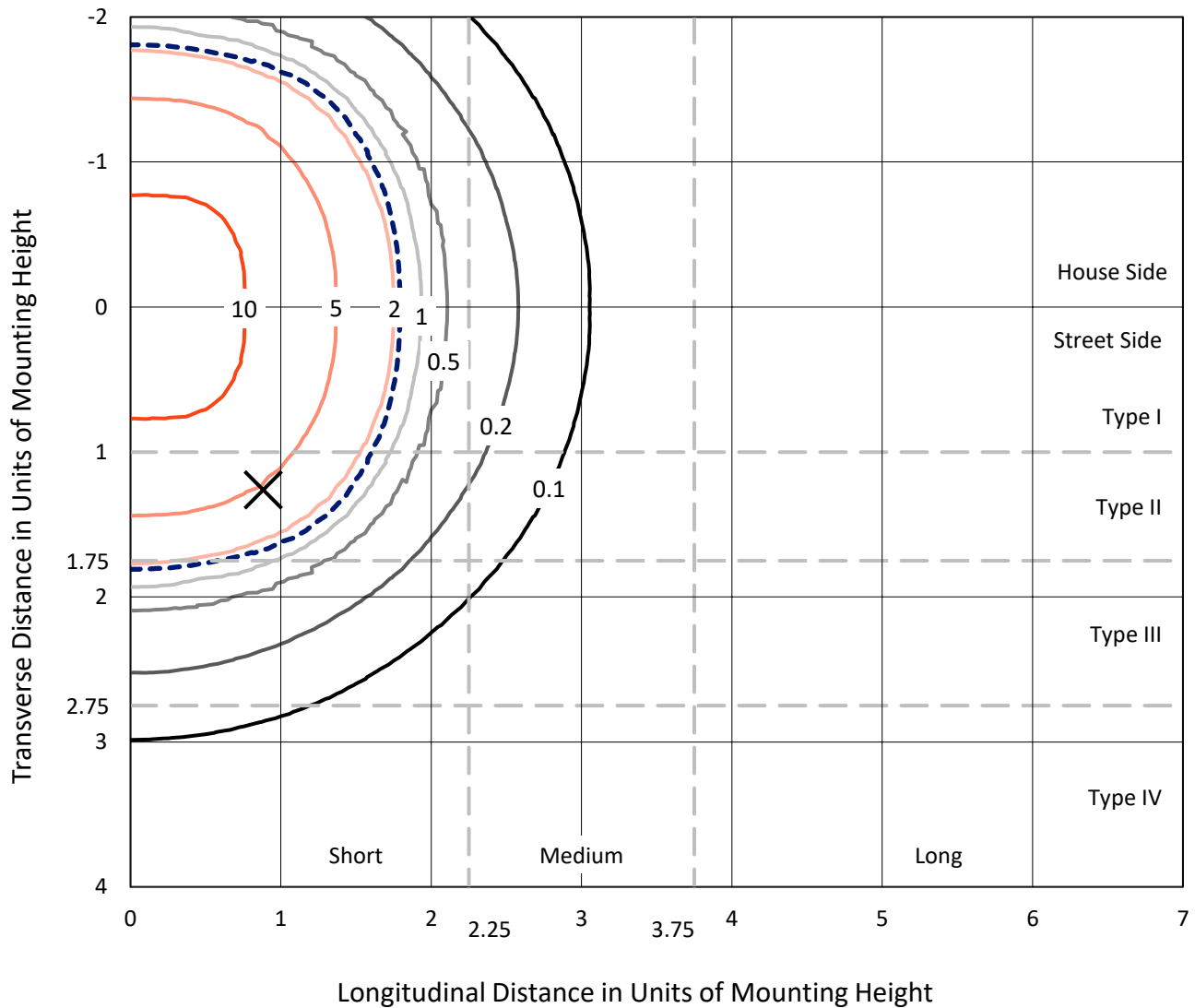


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

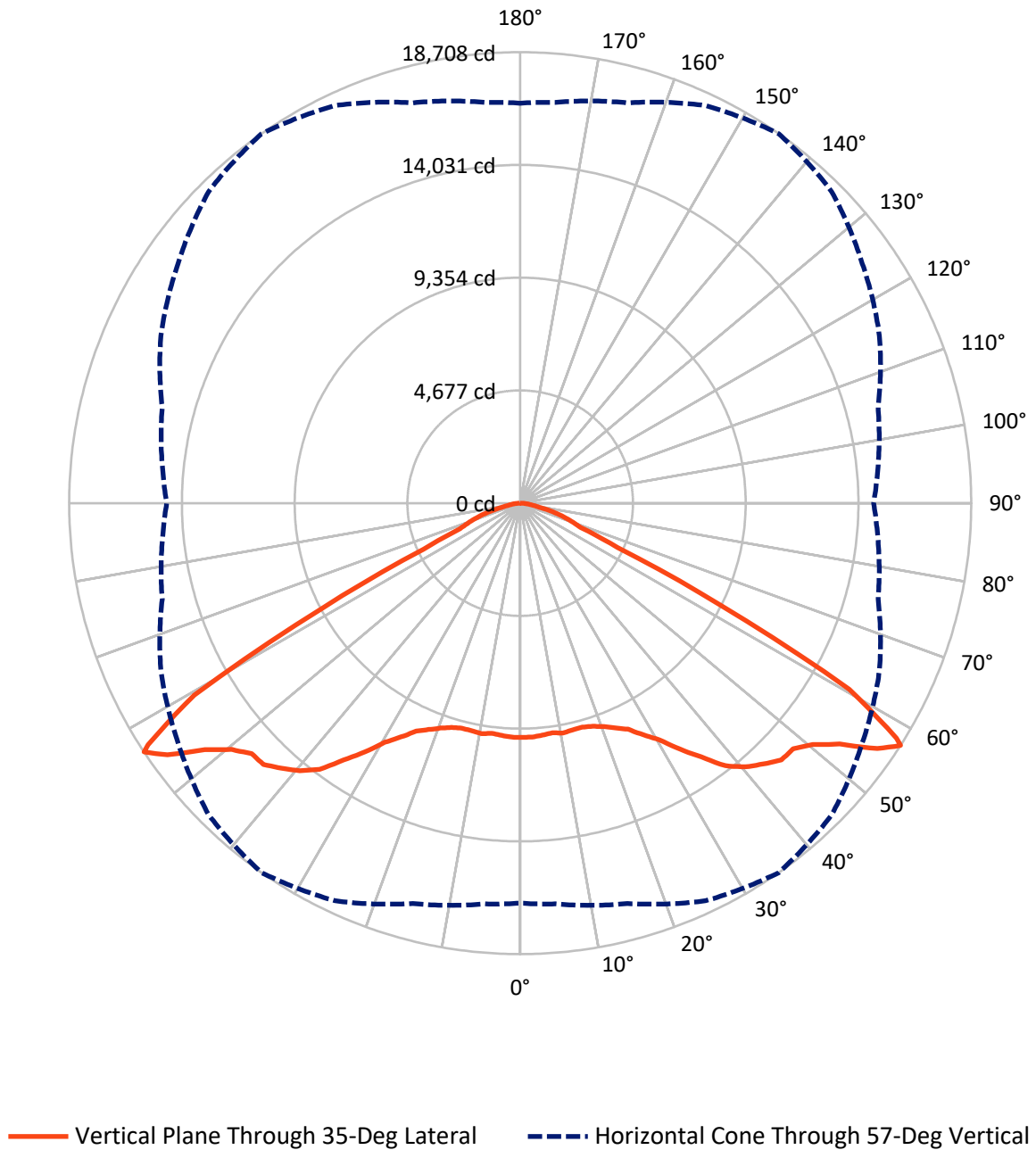


Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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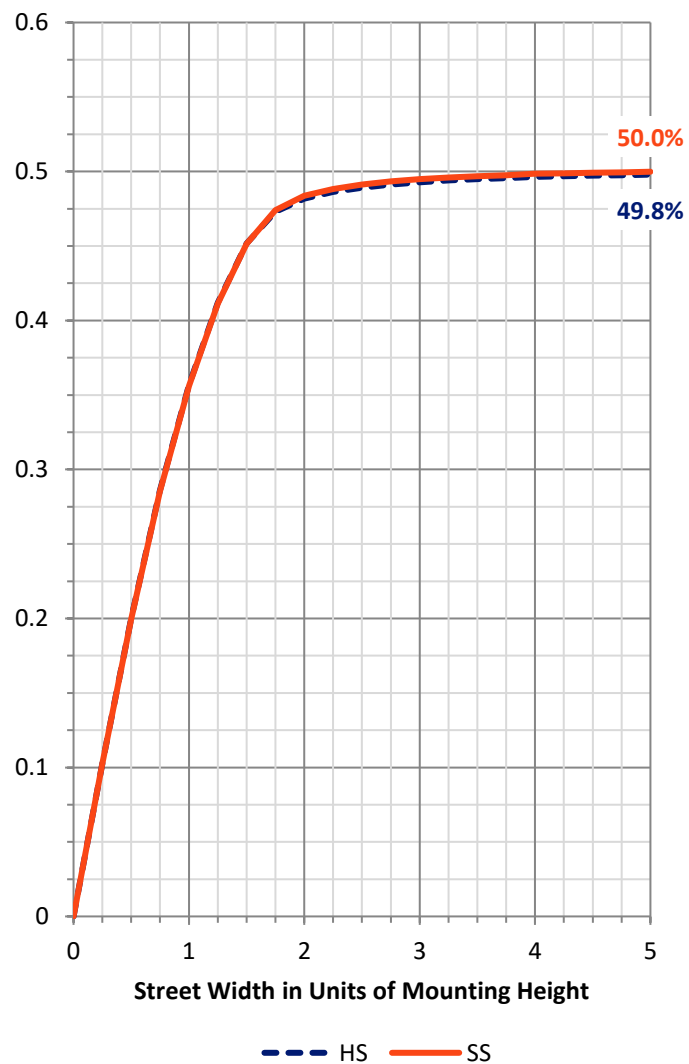
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24594.5	0.0	24594.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24594.5	0.0	24594.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	49189.0	0.0	49189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	921.0	1.9
10°-20°	2727.6	5.5
20°-30°	4763.8	9.7
30°-40°	7805.6	15.9
40°-50°	11444.9	23.3
50°-60°	14415.7	29.3
60°-70°	5421.6	11.0
70°-80°	1441.6	2.9
80°-90°	247.2	0.5
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°	49189.0	100.0
0°-180°	49189.0	100.0

Coefficient of Utilization



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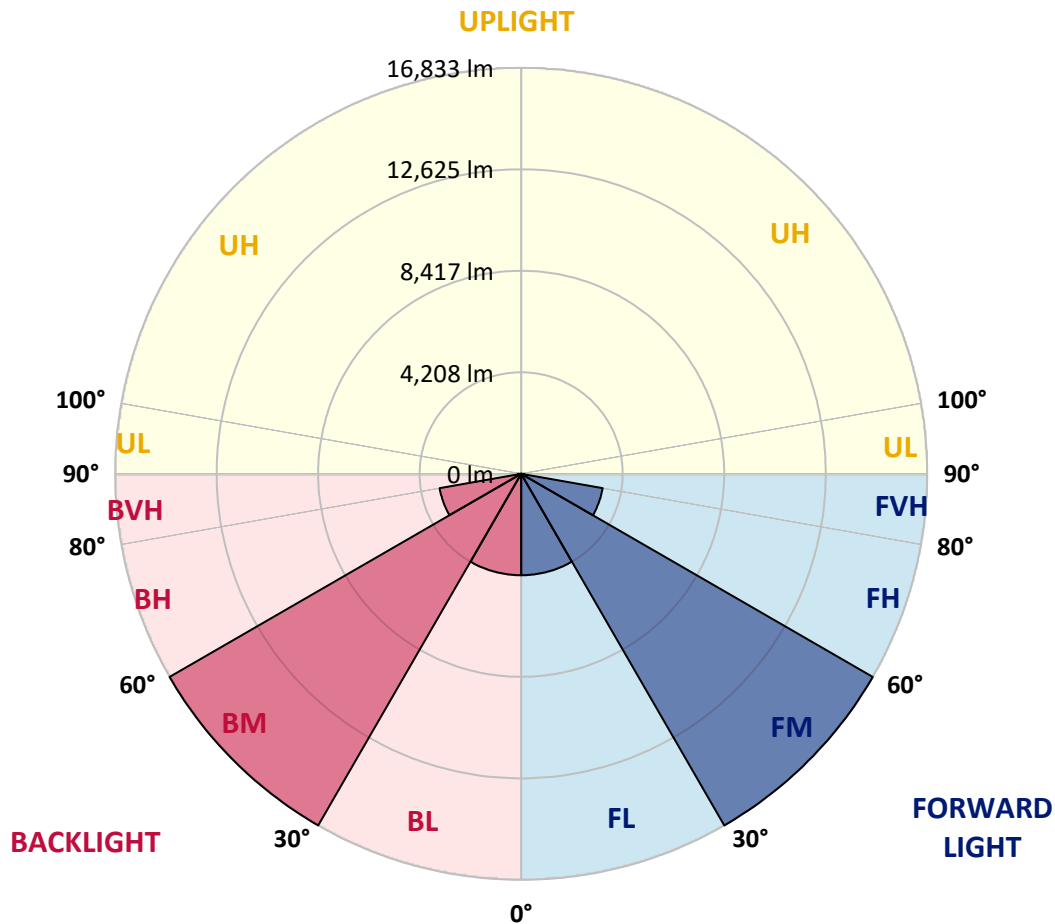
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4206.2	8.6			
FM	(30°-60°)	16833.1	34.2			
FH	(60°-80°)	3431.6	7.0			G2/5000
FVH	(80°-90°)	123.6	0.3			G2/225
BL	(0°-30°)	4206.2	8.6	B4/5000		
BM	(30°-60°)	16833.1	34.2	B5		
BH	(60°-80°)	3431.6	7.0	B4/5000		G2/5000
BVH	(80°-90°)	123.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9714.5	9714.5	9714.5	9714.5	9714.5	9714.5	9714.5	9714.5	9714.5	9714.5	9714.5
2.5°	9666.0	9762.9	9720.5	9696.3	9714.5	9684.2	9635.7	9690.2	9678.1	9629.6	9611.4
5°	9641.7	9714.5	9666.0	9714.5	9666.0	9750.8	9726.6	9635.7	9744.8	9641.7	9678.1
7.5°	9623.6	9647.8	9659.9	9635.7	9617.5	9720.5	9666.0	9623.6	9563.0	9544.8	9575.1
10°	9581.1	9641.7	9550.8	9672.0	9696.3	9623.6	9623.6	9544.8	9496.3	9466.0	9569.0
12.5°	9690.2	9587.2	9575.1	9635.7	9653.9	9684.2	9599.3	9556.9	9466.0	9478.1	9459.9
15°	9563.0	9605.4	9611.4	9623.6	9641.7	9714.5	9635.7	9544.8	9508.4	9381.2	9393.3
17.5°	9611.4	9569.0	9611.4	9750.8	9726.6	9781.1	9696.3	9556.9	9472.1	9399.3	9496.3
20°	9696.3	9678.1	9696.3	9866.0	9896.3	9944.8	9872.0	9744.8	9581.1	9496.3	9544.8
22.5°	9787.2	9775.1	9787.2	9950.8	10126.6	10187.2	10114.4	9817.5	9732.6	9575.1	9520.5
25°	9950.8	9962.9	10090.2	10272.0	10387.1	10502.3	10369.0	10156.9	9884.2	9787.2	9672.0
27.5°	10314.4	10344.7	10417.4	10684.1	10884.1	10987.1	10799.2	10508.3	10338.7	10138.7	10108.4
30°	10762.9	10762.9	10890.1	11120.4	11393.1	11550.7	11320.4	10975.0	10768.9	10659.9	10593.2
32.5°	11356.8	11290.1	11338.6	11744.6	12168.8	12302.2	11993.1	11568.9	11241.6	11096.2	11047.7
35°	11865.8	11908.2	12017.3	12453.7	12926.4	13235.4	12750.6	12199.1	11865.8	11732.5	11708.3
37.5°	12526.4	12599.1	12653.7	13253.6	13823.3	13938.4	13471.8	13029.4	12623.4	12514.3	12453.7
40°	13459.7	13411.2	13429.4	13871.7	14386.9	14459.6	13999.0	13683.9	13350.6	13283.9	13283.9
42.5°	14229.3	14174.8	14235.4	14399.0	14792.9	14738.4	14483.8	14253.5	14114.2	14041.4	14114.2
45°	14695.9	14683.8	14792.9	14914.1	15192.9	15011.1	14811.1	14847.4	14714.1	14592.9	14586.8
47.5°	15205.0	15126.2	15259.5	15441.3	15229.2	15144.4	15132.3	15211.0	15168.6	14956.5	14889.9
50°	15453.5	15423.2	15635.3	15847.4	15732.2	15538.3	15580.7	15708.0	15162.6	14877.7	14714.1
52.5°	16120.1	16126.1	16532.2	16647.3	16598.8	16314.0	16404.9	16059.5	15417.1	15017.1	15035.3
55°	17168.5	17126.1	17580.6	17919.9	17974.5	17610.9	17174.5	16689.7	15883.7	15477.7	15356.5
57°	16592.8	16689.7	17192.7	18198.7	18707.8	18277.5	17326.0	16441.3	15368.6	14877.7	14659.6
57.5°	15823.1	15980.7	16853.4	17865.4	18398.7	18362.3	17138.2	15980.7	15023.2	14259.6	14277.8
60°	11593.1	11623.4	12411.2	14017.2	15683.7	15720.1	14229.3	12696.1	11629.5	10799.2	10914.4
62.5°	6114.7	6254.1	6569.2	7860.1	9302.4	9653.9	8750.9	7963.1	7041.9	6411.7	6472.3
65°	3236.1	3218.0	3369.5	3733.1	4442.1	4623.9	4502.7	3878.5	3557.3	3454.3	3460.4
67.5°	2630.1	2660.4	2642.2	2660.4	2708.9	2787.7	2769.5	2793.7	2811.9	2842.2	2836.2
70°	2230.1	2230.1	2242.3	2248.3	2248.3	2284.7	2327.1	2405.9	2412.0	2442.3	2454.4
72.5°	1757.5	1745.3	1763.5	1805.9	1812.0	1842.3	1902.9	1951.4	1969.6	1969.6	1933.2
75°	1193.9	1206.0	1230.2	1266.6	1302.9	1357.5	1406.0	1436.3	1448.4	1430.2	1412.0
77.5°	672.7	684.8	703.0	757.5	799.9	848.4	903.0	933.3	963.6	969.6	933.3
80°	400.0	400.0	430.3	472.7	521.2	569.7	618.1	654.5	666.6	666.6	648.4
82.5°	242.4	248.5	272.7	315.1	357.6	387.9	430.3	460.6	484.8	478.8	466.6
85°	127.3	127.3	151.5	187.9	218.2	248.5	248.5	230.3	218.2	187.9	175.7
87.5°	42.4	36.4	48.5	48.5	42.4	48.5	48.5	54.5	54.5	54.5	54.5
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)