

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: P534409

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
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-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33445 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

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

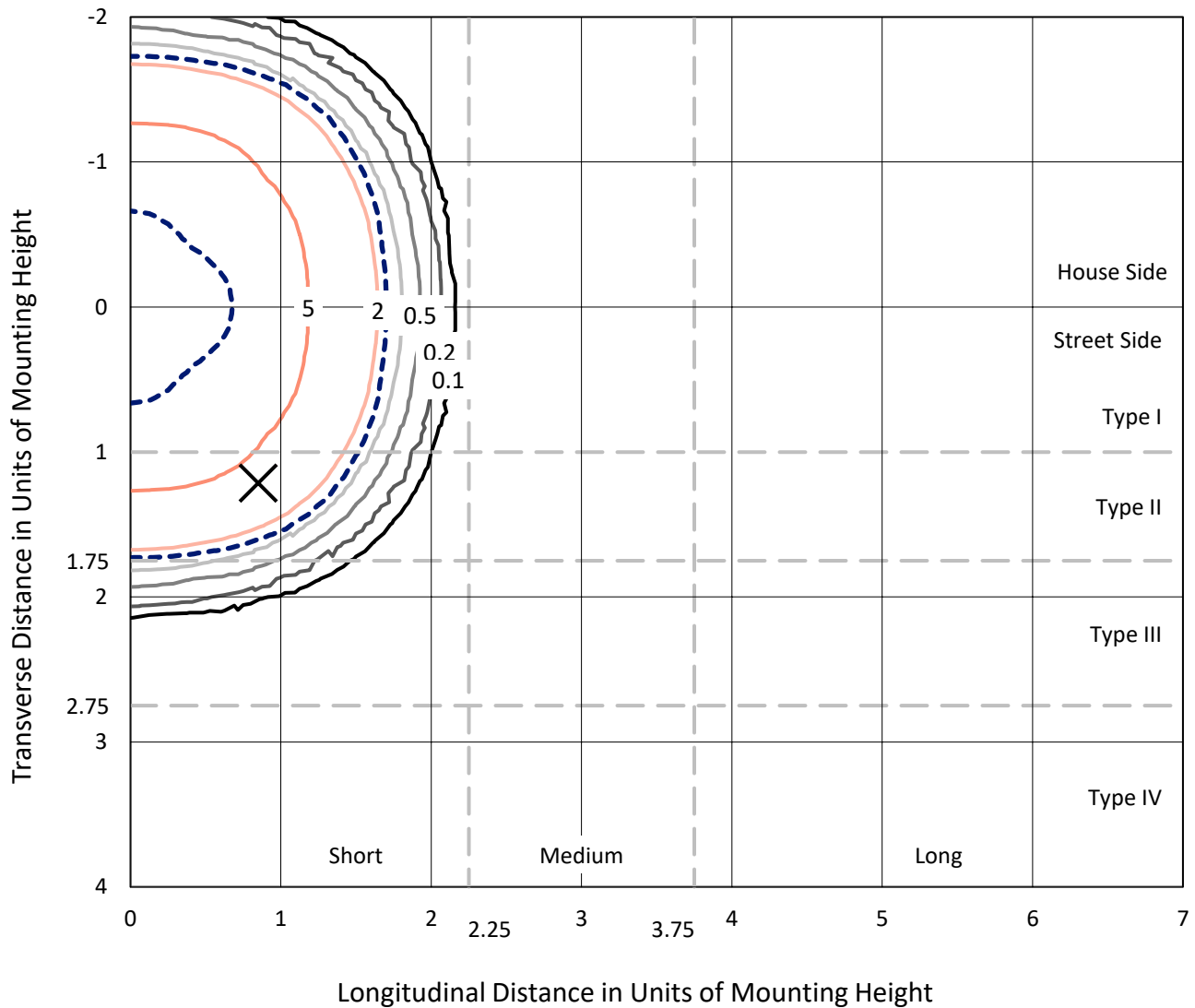


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Iso-Footcandle Lines of Horizontal Illumination

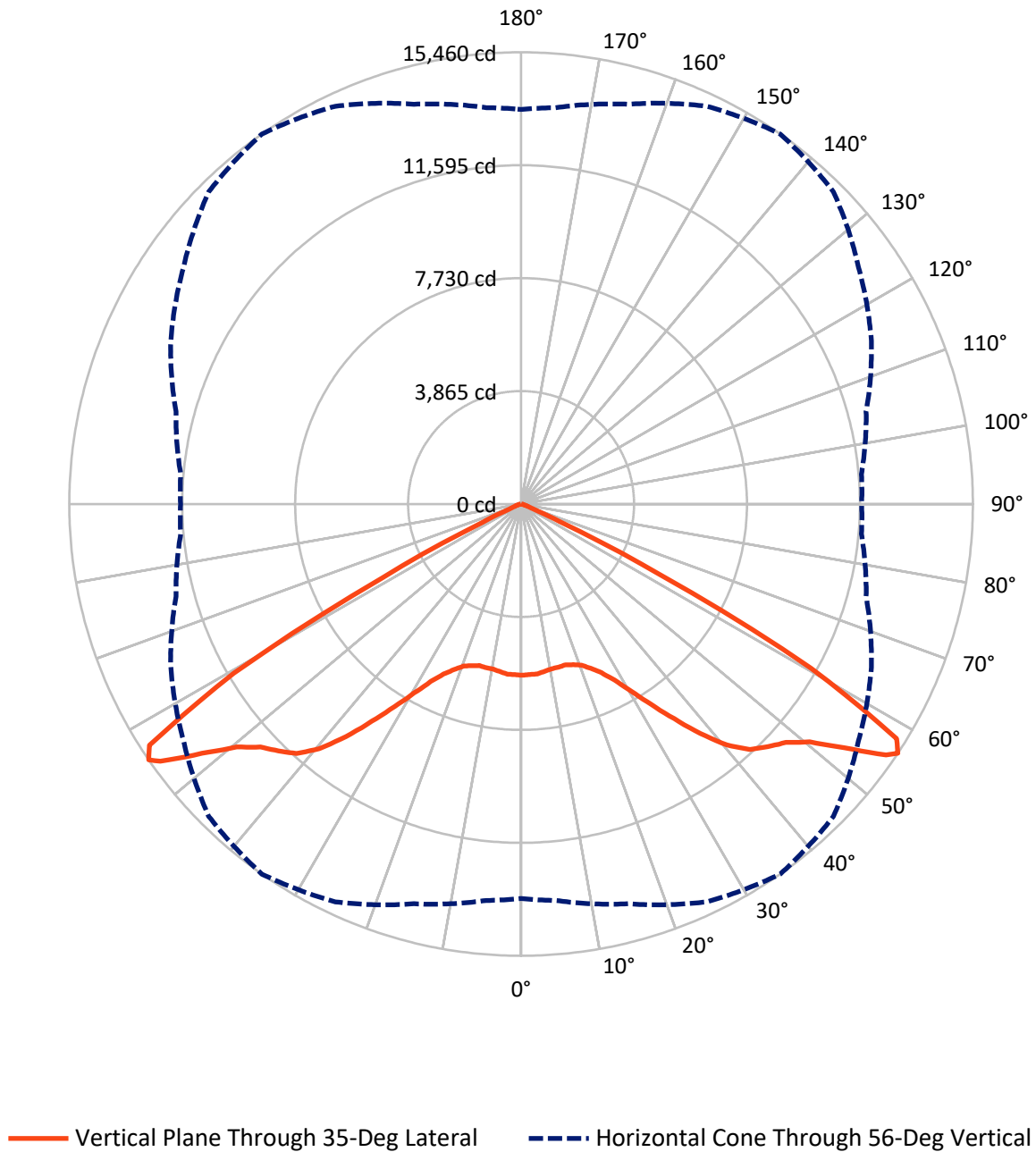
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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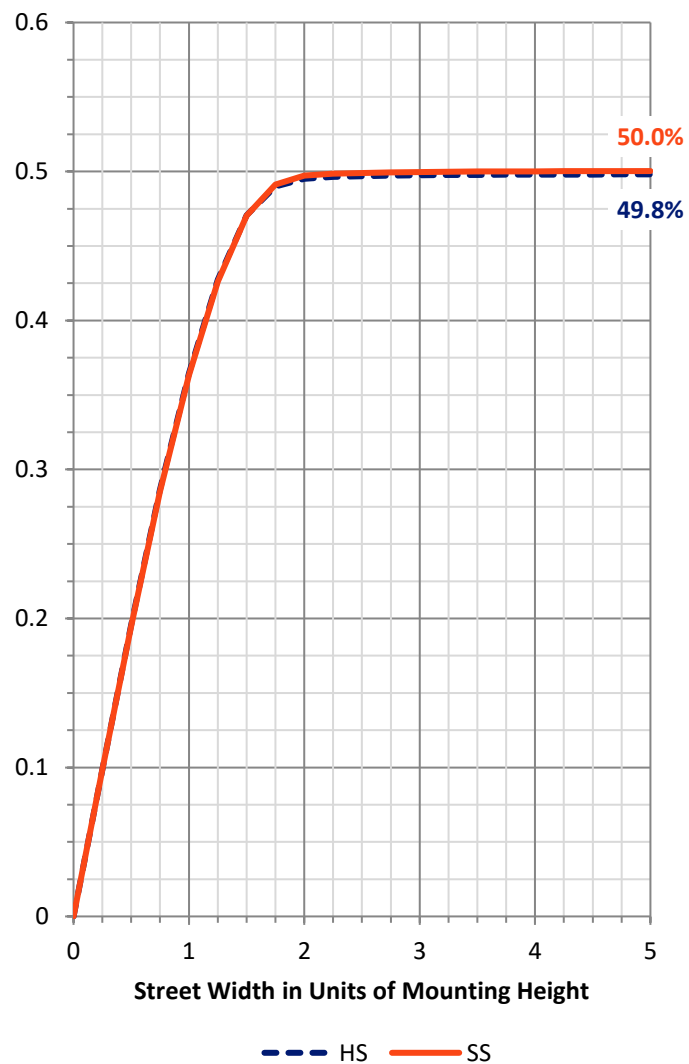
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16722.5	0.0	16722.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16722.5	0.0	16722.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33445.0	0.0	33445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.8	1.6
10°-20°	1608.0	4.8
20°-30°	2911.9	8.7
30°-40°	5399.6	16.1
40°-50°	8863.1	26.5
50°-60°	11418.4	34.1
60°-70°	2516.5	7.5
70°-80°	146.0	0.4
80°-90°	30.7	0.1
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°	33445.0	100.0
0°-180°	33445.0	100.0

Coefficient of Utilization



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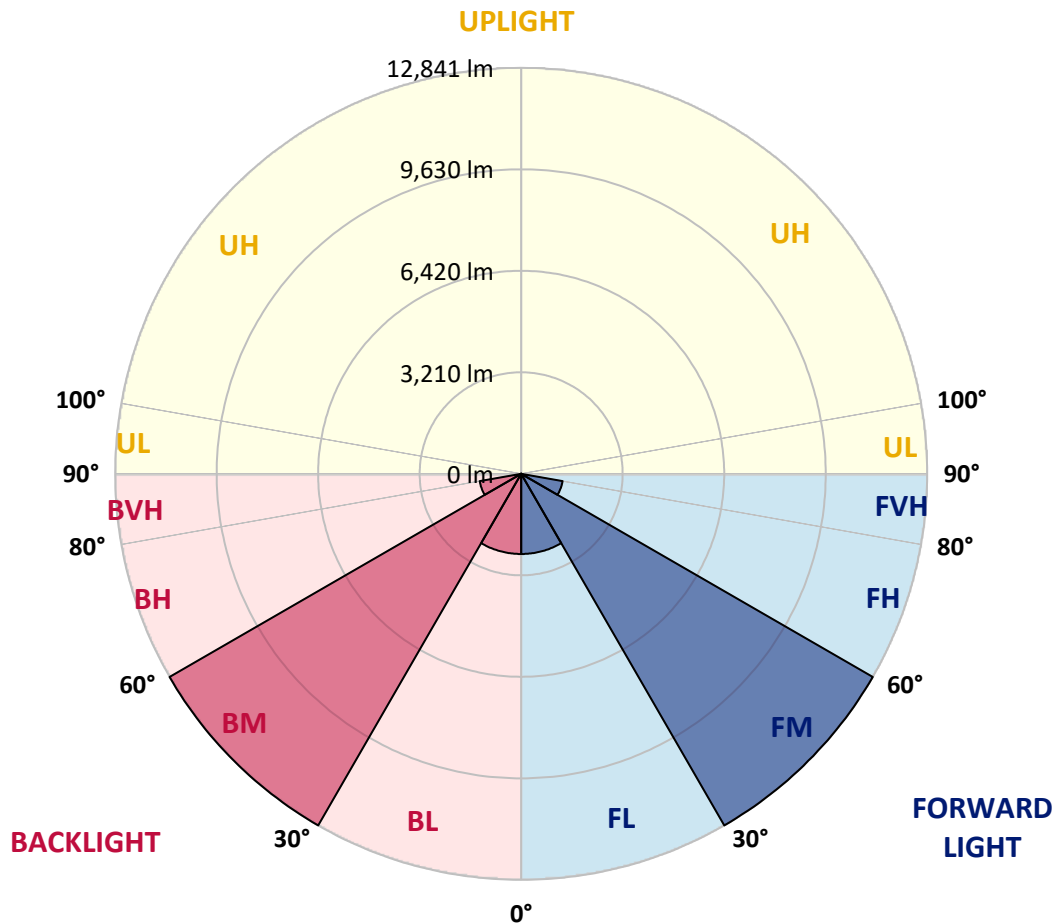
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2535.3	7.6			
FM	(30°-60°)	12840.6	38.4			
FH	(60°-80°)	1331.2	4.0			G1/1800
FVH	(80°-90°)	15.4	0.0			G1/100
BL	(0°-30°)	2535.3	7.6	B4/5000		
BM	(30°-60°)	12840.6	38.4	B5		
BH	(60°-80°)	1331.2	4.0	B3/2500		G1/1800
BVH	(80°-90°)	15.4	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5860.3	5860.3	5860.3	5860.3	5860.3	5860.3	5860.3	5860.3	5860.3	5860.3	5860.3
2.5°	5872.4	5872.4	5878.5	5884.5	5842.1	5823.9	5830.0	5817.9	5811.8	5830.0	5830.0
5°	5854.2	5854.2	5836.0	5842.1	5842.1	5787.6	5787.6	5799.7	5799.7	5763.3	5751.2
7.5°	5805.7	5793.6	5769.4	5799.7	5781.5	5781.5	5739.1	5708.8	5696.7	5720.9	5696.7
10°	5702.7	5708.8	5733.0	5745.1	5733.0	5769.4	5696.7	5654.2	5611.8	5593.6	5593.6
12.5°	5654.2	5690.6	5654.2	5684.5	5727.0	5696.7	5654.2	5623.9	5563.3	5539.1	5539.1
15°	5648.2	5672.4	5684.5	5727.0	5708.8	5720.9	5636.1	5599.7	5508.8	5466.4	5448.2
17.5°	5642.1	5672.4	5690.6	5769.4	5781.5	5787.6	5720.9	5611.8	5533.0	5490.6	5448.2
20°	5708.8	5720.9	5757.3	5836.0	5884.5	5969.4	5848.2	5733.0	5563.3	5514.8	5496.7
22.5°	5793.6	5854.2	5890.6	5975.4	6102.7	6175.4	6017.9	5872.4	5696.7	5636.1	5563.3
25°	6066.3	6054.2	6114.8	6290.6	6393.6	6448.1	6320.9	6108.8	5878.5	5805.7	5817.9
27.5°	6405.7	6417.8	6472.4	6666.3	6817.8	6902.7	6751.1	6472.4	6248.1	6126.9	6114.8
30°	6848.1	6836.0	6896.6	7157.2	7429.9	7557.2	7290.5	6963.3	6745.1	6587.5	6623.9
32.5°	7314.7	7320.8	7490.5	7726.8	8169.2	8417.7	7987.4	7587.5	7260.2	7151.1	7096.6
35°	8005.6	8035.9	8169.2	8532.9	9023.7	9344.9	8872.2	8393.5	8017.7	7817.8	7842.0
37.5°	8860.1	8829.8	9054.0	9448.0	9963.1	10199.4	9799.5	9254.0	8872.2	8738.9	8823.8
40°	9769.2	9799.5	9914.6	10272.2	10847.9	11005.5	10411.5	10114.6	9781.3	9714.6	9817.6
42.5°	10678.2	10660.0	10744.9	11066.1	11484.2	11375.1	11023.6	10847.9	10611.5	10478.2	10617.6
45°	11344.8	11314.5	11472.1	11690.3	11841.8	11635.7	11478.2	11417.6	11296.3	11150.9	11278.2
47.5°	11993.3	11969.0	12120.5	12181.1	12193.3	11920.6	11950.9	12059.9	11756.9	11453.9	11599.4
50°	12544.8	12502.3	12690.2	12823.5	12793.2	12356.9	12466.0	12356.9	11884.2	11526.6	11472.1
52.5°	13465.9	13484.1	13684.1	13926.5	13853.8	13490.2	13332.6	12835.7	12229.6	11908.4	11720.6
55°	14047.7	13956.8	14302.2	15071.9	15156.7	14781.0	14084.1	13350.8	12441.7	12047.8	11999.3
56°	13502.3	13617.4	14162.9	15023.4	15459.8	15114.3	14102.3	13223.5	12223.6	11690.3	11653.9
57.5°	12114.5	12053.9	12793.2	13968.9	15156.7	15011.3	13605.3	12314.5	11150.9	10550.9	10478.2
60°	7539.0	7714.7	8363.2	9817.6	11405.4	11478.2	10084.3	8975.3	7617.8	7084.5	7211.7
62.5°	2951.4	2799.8	3205.9	4290.7	5381.5	5623.9	5096.7	4236.1	3478.6	2951.4	2915.0
65°	684.8	666.6	751.5	1036.3	1448.4	1678.7	1593.9	1145.4	842.4	800.0	739.4
67.5°	387.9	387.9	369.7	369.7	406.0	430.3	412.1	406.0	424.2	442.4	436.3
70°	272.7	266.7	254.5	260.6	248.5	248.5	266.7	297.0	321.2	321.2	327.3
72.5°	163.6	163.6	163.6	181.8	181.8	181.8	200.0	224.2	230.3	224.2	218.2
75°	72.7	72.7	84.8	103.0	115.1	121.2	139.4	151.5	163.6	151.5	139.4
77.5°	18.2	18.2	30.3	42.4	54.5	66.7	90.9	109.1	115.1	109.1	90.9
80°	6.1	6.1	12.1	30.3	54.5	66.7	90.9	97.0	103.0	90.9	72.7
82.5°	6.1	6.1	12.1	30.3	42.4	54.5	72.7	84.8	90.9	78.8	72.7
85°	0.0	6.1	12.1	24.2	36.4	48.5	48.5	36.4	30.3	18.2	24.2
87.5°	0.0	0.0	6.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)