

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: P533473

Luminaire Tested: **GALN-SA8D-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533473
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-SA8D-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 29791 lumens
Efficiency: N/A
Efficacy: 60.4 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): 493
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



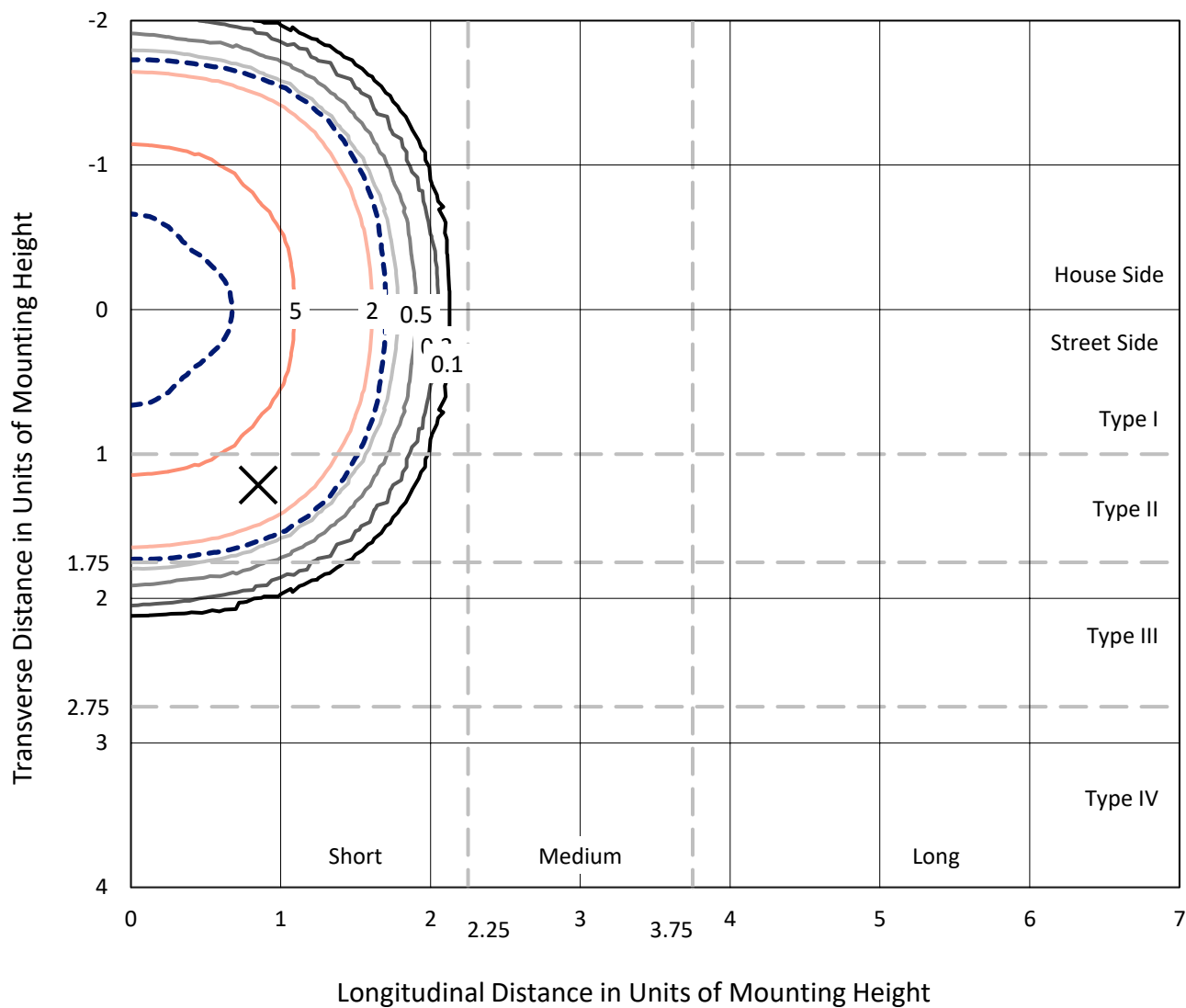
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

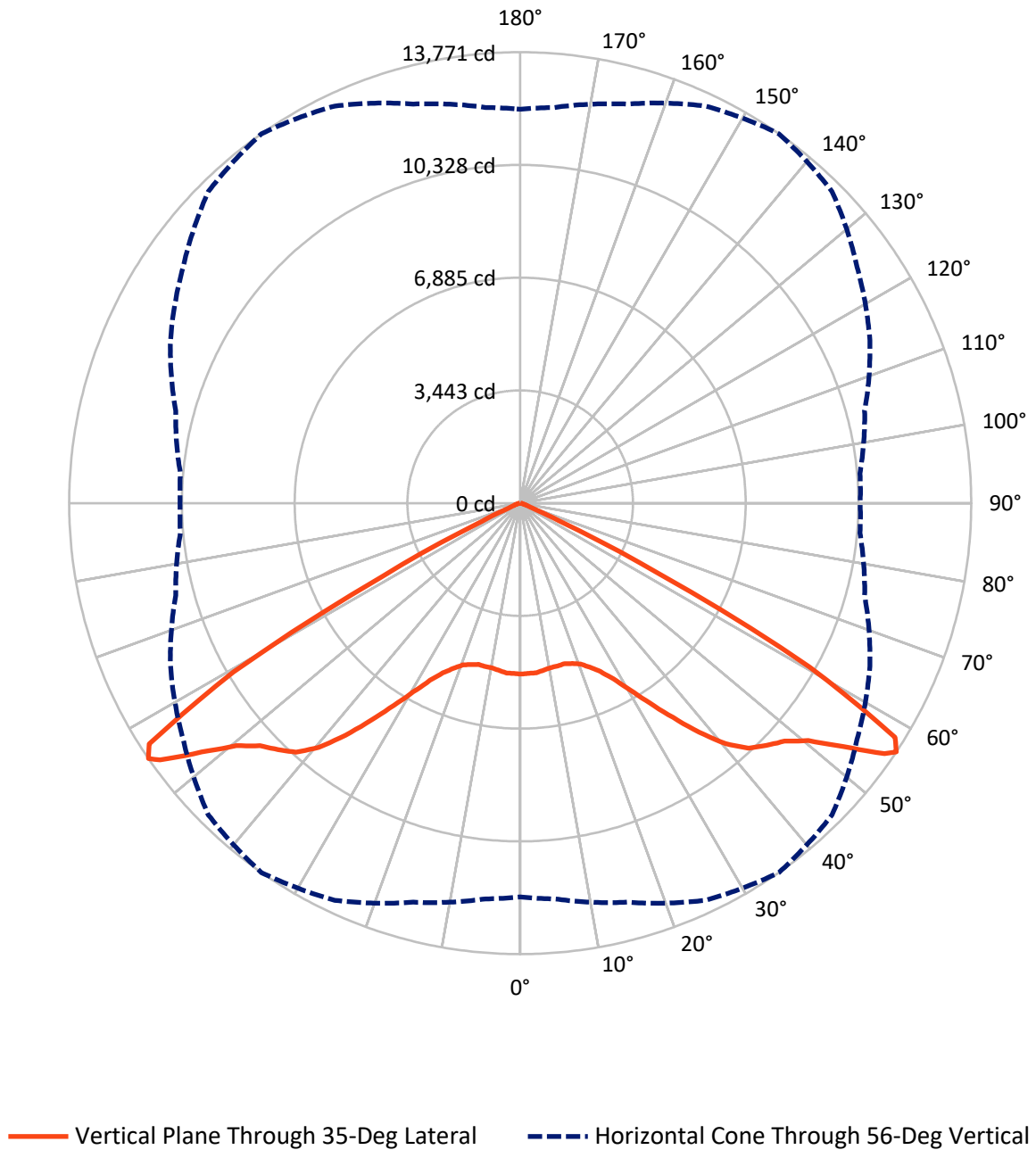


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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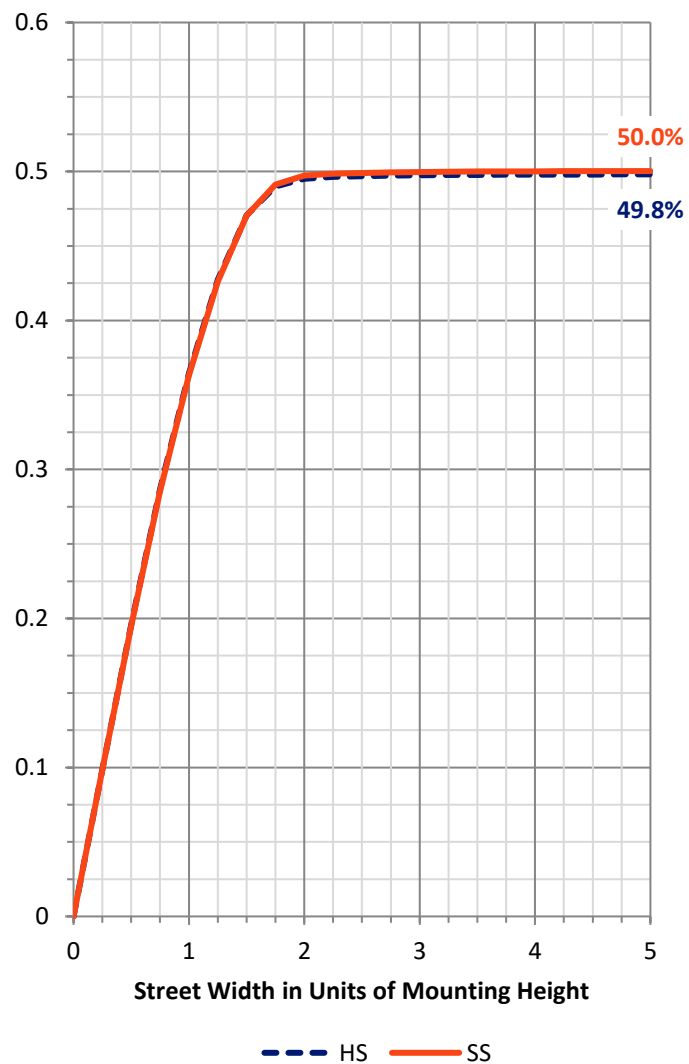
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14895.5	0.0	14895.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14895.5	0.0	14895.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29791.0	0.0	29791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.6	1.6
10°-20°	1432.3	4.8
20°-30°	2593.7	8.7
30°-40°	4809.7	16.1
40°-50°	7894.8	26.5
50°-60°	10170.9	34.1
60°-70°	2241.5	7.5
70°-80°	130.1	0.4
80°-90°	27.4	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°	29791.0	100.0
0°-180°	29791.0	100.0

Coefficient of Utilization



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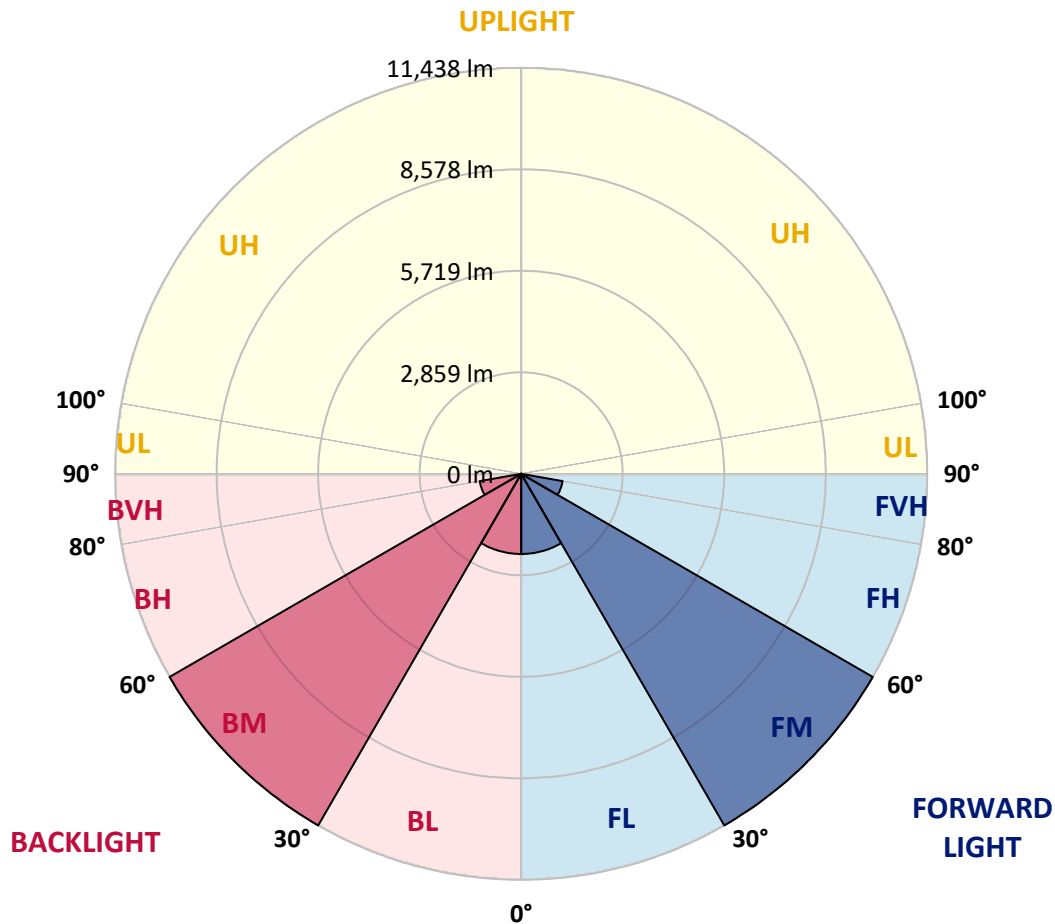
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2258.3	7.6			
FM	(30°-60°)	11437.7	38.4			
FH	(60°-80°)	1185.8	4.0			G1/1800
FVH	(80°-90°)	13.7	0.0			G1/100
BL	(0°-30°)	2258.3	7.6	B3/2500		
BM	(30°-60°)	11437.7	38.4	B5		
BH	(60°-80°)	1185.8	4.0	B3/2500		G1/1800
BVH	(80°-90°)	13.7	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°	5220.0	5220.0	5220.0	5220.0	5220.0	5220.0	5220.0	5220.0	5220.0	5220.0	5220.0
2.5°	5230.8	5230.8	5236.2	5241.6	5203.8	5187.6	5193.0	5182.2	5176.8	5193.0	5193.0
5°	5214.6	5214.6	5198.4	5203.8	5203.8	5155.2	5155.2	5166.0	5166.0	5133.7	5122.9
7.5°	5171.4	5160.6	5139.1	5166.0	5149.8	5149.8	5112.1	5085.1	5074.3	5095.9	5074.3
10°	5079.7	5085.1	5106.7	5117.5	5106.7	5139.1	5074.3	5036.5	4998.7	4982.5	4982.5
12.5°	5036.5	5068.9	5036.5	5063.5	5101.3	5074.3	5036.5	5009.5	4955.5	4933.9	4933.9
15°	5031.1	5052.7	5063.5	5101.3	5085.1	5095.9	5020.3	4987.9	4906.9	4869.1	4852.9
17.5°	5025.7	5052.7	5068.9	5139.1	5149.8	5155.2	5095.9	4998.7	4928.5	4890.7	4852.9
20°	5085.1	5095.9	5128.3	5198.4	5241.6	5317.2	5209.2	5106.7	4955.5	4912.3	4896.1
22.5°	5160.6	5214.6	5247.0	5322.6	5436.0	5500.7	5360.4	5230.8	5074.3	5020.3	4955.5
25°	5403.6	5392.8	5446.7	5603.3	5695.1	5743.6	5630.3	5441.3	5236.2	5171.4	5182.2
27.5°	5705.9	5716.7	5765.2	5938.0	6072.9	6148.5	6013.6	5765.2	5565.5	5457.5	5446.7
30°	6099.9	6089.1	6143.1	6375.2	6618.1	6731.5	6494.0	6202.5	6008.2	5867.8	5900.2
32.5°	6515.6	6521.0	6672.1	6882.7	7276.7	7498.0	7114.8	6758.5	6467.0	6369.8	6321.2
35°	7131.0	7158.0	7276.7	7600.6	8037.9	8324.0	7902.9	7476.5	7141.8	6963.6	6985.2
37.5°	7892.1	7865.1	8064.9	8415.7	8874.6	9085.1	8728.8	8243.0	7902.9	7784.2	7859.7
40°	8701.8	8728.8	8831.4	9149.9	9662.7	9803.1	9274.0	9009.5	8712.6	8653.3	8745.0
42.5°	9511.6	9495.4	9570.9	9857.0	10229.5	10132.4	9819.3	9662.7	9452.2	9333.4	9457.6
45°	10105.4	10078.4	10218.7	10413.1	10548.0	10364.5	10224.1	10170.1	10062.2	9932.6	10046.0
47.5°	10683.0	10661.4	10796.3	10850.3	10861.1	10618.2	10645.2	10742.3	10472.4	10202.5	10332.1
50°	11174.2	11136.4	11303.8	11422.5	11395.5	11006.9	11104.0	11006.9	10585.8	10267.3	10218.7
52.5°	11994.7	12010.9	12189.1	12405.0	12340.2	12016.3	11876.0	11433.3	10893.5	10607.4	10440.0
55°	12512.9	12432.0	12739.7	13425.2	13500.8	13166.1	12545.3	11892.2	11082.4	10731.5	10688.4
56°	12027.1	12129.7	12615.5	13382.0	13770.7	13463.0	12561.5	11778.8	10888.1	10413.1	10380.7
57.5°	10790.9	10736.9	11395.5	12442.8	13500.8	13371.3	12118.9	10969.1	9932.6	9398.2	9333.4
60°	6715.3	6871.9	7449.5	8745.0	10159.3	10224.1	8982.5	7994.7	6785.5	6310.5	6423.8
62.5°	2628.9	2494.0	2855.6	3821.9	4793.6	5009.5	4539.9	3773.3	3098.5	2628.9	2596.5
65°	610.0	593.8	669.4	923.1	1290.2	1495.3	1419.7	1020.3	750.3	712.6	658.6
67.5°	345.5	345.5	329.3	329.3	361.7	383.3	367.1	361.7	377.9	394.1	388.7
70°	242.9	237.5	226.7	232.1	221.3	221.3	237.5	264.5	286.1	286.1	291.5
72.5°	145.8	145.8	145.8	161.9	161.9	161.9	178.1	199.7	205.1	199.7	194.3
75°	64.8	64.8	75.6	91.8	102.6	108.0	124.2	135.0	145.8	135.0	124.2
77.5°	16.2	16.2	27.0	37.8	48.6	59.4	81.0	97.2	102.6	97.2	81.0
80°	5.4	5.4	10.8	27.0	48.6	59.4	81.0	86.4	91.8	81.0	64.8
82.5°	5.4	5.4	10.8	27.0	37.8	48.6	64.8	75.6	81.0	70.2	64.8
85°	0.0	5.4	10.8	21.6	32.4	43.2	43.2	32.4	27.0	16.2	21.6
87.5°	0.0	0.0	5.4	5.4	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)