

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: P651543

Luminaire Tested: **GALN-SA8D-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651543
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-840-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 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: 31529.1 lumens
Efficiency: N/A
Efficacy: 64.0 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

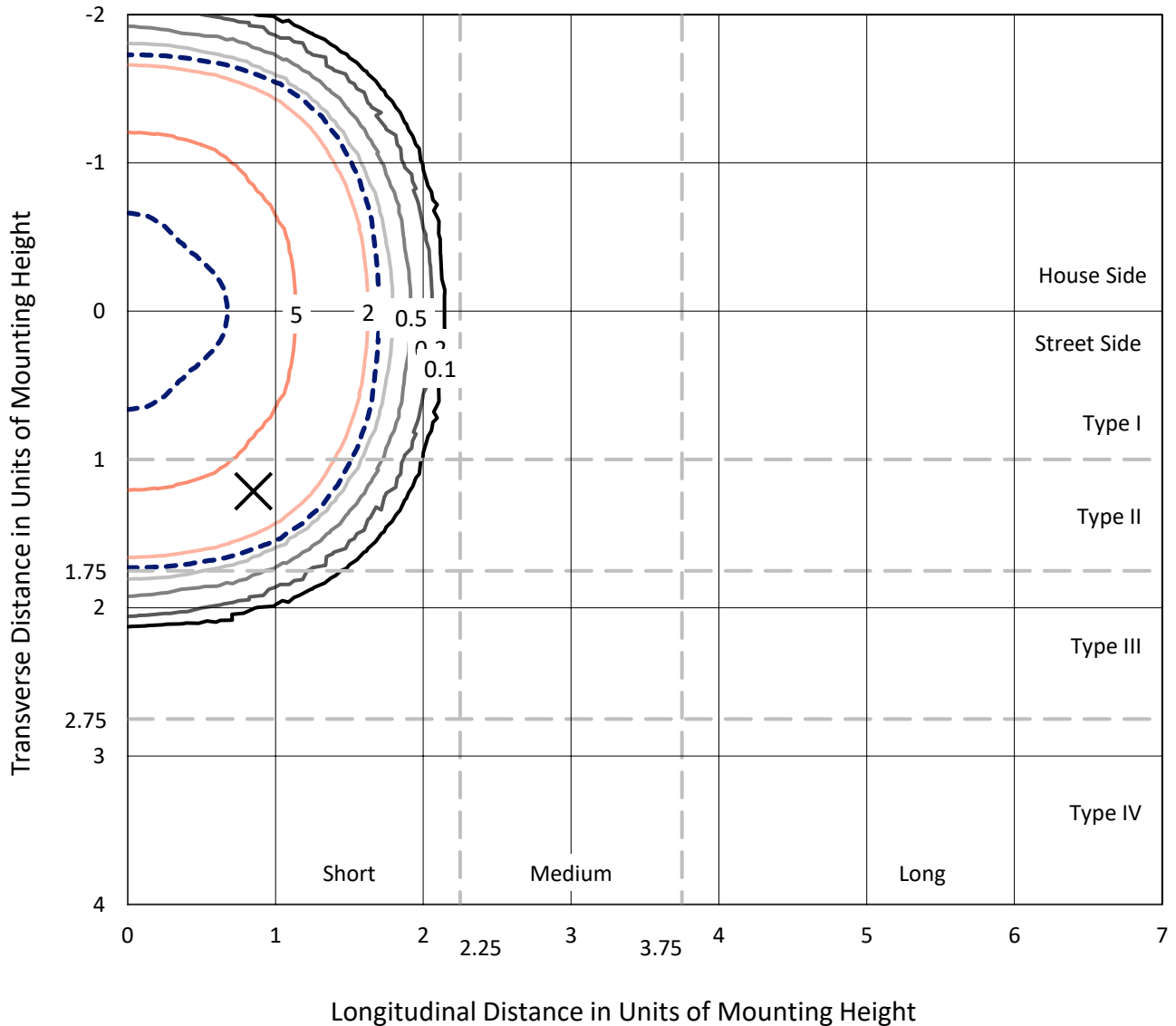




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Iso-Footcandle Lines of Horizontal Illumination

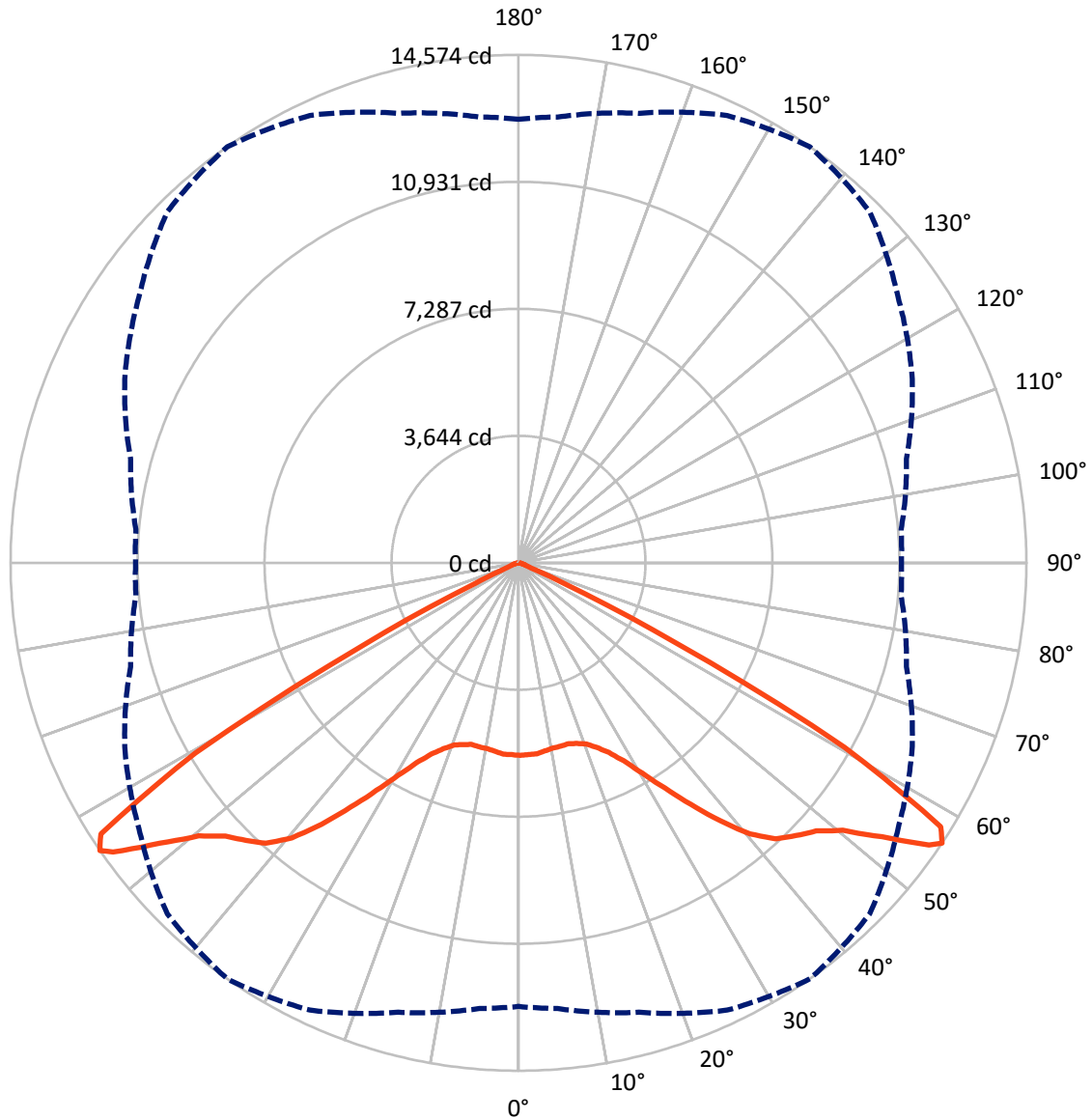
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15764.5	0.0	15764.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15764.5	0.0	15764.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31529.1	0.0	31529.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.2	1.6
10°-20°	1515.9	4.8
20°-30°	2745.1	8.7
30°-40°	5090.3	16.1
40°-50°	8355.4	26.5
50°-60°	10764.2	34.1
60°-70°	2372.3	7.5
70°-80°	137.6	0.4
80°-90°	29.0	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°	31529.1	100.0
0°-180°	31529.1	100.0

Coefficient of Utilization

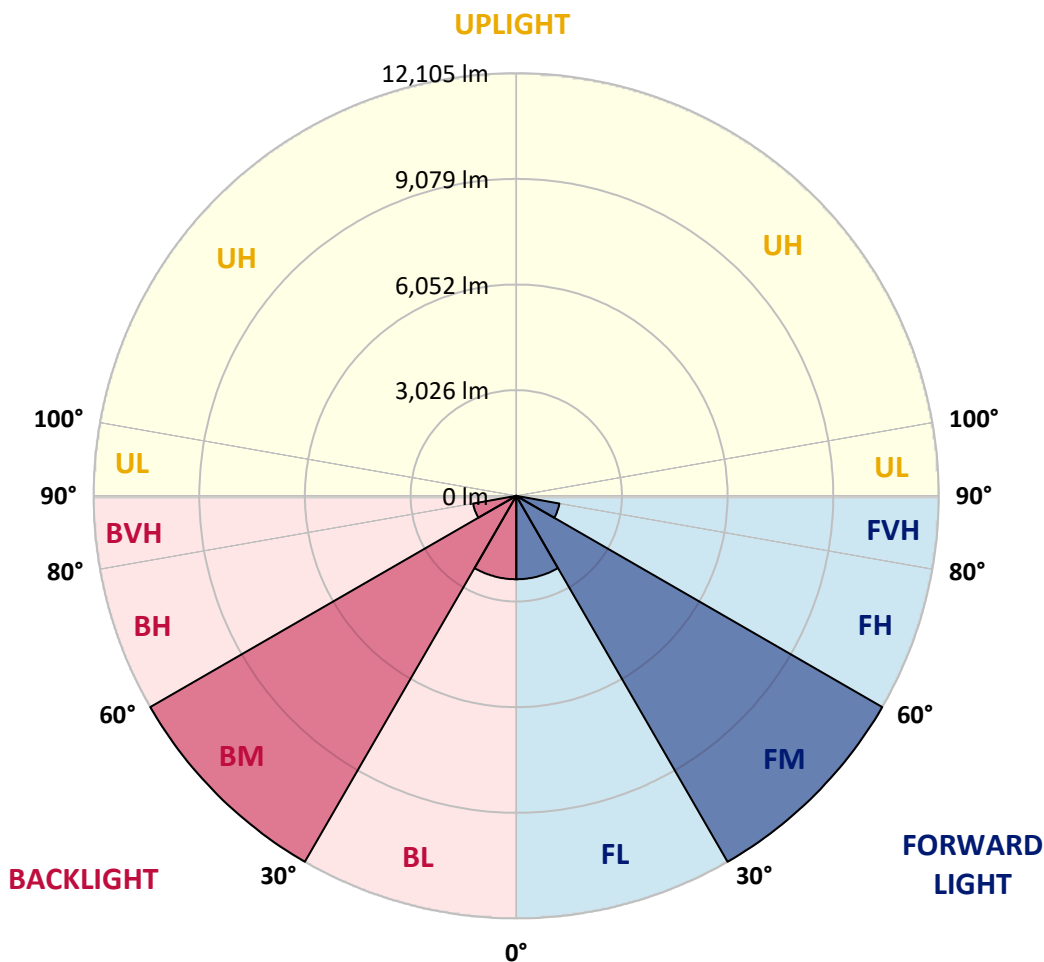


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2390.1	7.6			
FM	(30°-60°)	12105.0	38.4			
FH	(60°-80°)	1255.0	4.0			G1/1800
FVH	(80°-90°)	14.5	0.0			G1/100
BL	(0°-30°)	2390.1	7.6	B3/2500		
BM	(30°-60°)	12105.0	38.4	B5		
BH	(60°-80°)	1255.0	4.0	B3/2500		G1/1800
BVH	(80°-90°)	14.5	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°	5524.6	5524.6	5524.6	5524.6	5524.6	5524.6	5524.6	5524.6	5524.6	5524.6	5524.6
2.5°	5536.0	5536.0	5541.7	5547.4	5507.5	5490.3	5496.0	5484.6	5478.9	5496.0	5496.0
5°	5518.9	5518.9	5501.7	5507.5	5507.5	5456.0	5456.0	5467.4	5467.4	5433.2	5421.8
7.5°	5473.1	5461.7	5438.9	5467.4	5450.3	5450.3	5410.3	5381.7	5370.3	5393.2	5370.3
10°	5376.0	5381.7	5404.6	5416.0	5404.6	5438.9	5370.3	5330.3	5290.3	5273.2	5273.2
12.5°	5330.3	5364.6	5330.3	5358.9	5398.9	5370.3	5330.3	5301.7	5244.6	5221.8	5221.8
15°	5324.6	5347.5	5358.9	5398.9	5381.7	5393.2	5313.2	5278.9	5193.2	5153.2	5136.1
17.5°	5318.9	5347.5	5364.6	5438.9	5450.3	5456.0	5393.2	5290.3	5216.1	5176.1	5136.1
20°	5381.7	5393.2	5427.5	5501.7	5547.4	5627.4	5513.2	5404.6	5244.6	5198.9	5181.8
22.5°	5461.7	5518.9	5553.1	5633.1	5753.1	5821.7	5673.1	5536.0	5370.3	5313.2	5244.6
25°	5718.8	5707.4	5764.6	5930.2	6027.4	6078.7	5958.7	5758.8	5541.7	5473.1	5484.6
27.5°	6038.7	6050.2	6101.6	6284.5	6427.3	6507.2	6364.4	6101.6	5890.2	5776.0	5764.6
30°	6455.9	6444.4	6501.5	6747.2	7004.3	7124.3	6872.9	6564.3	6358.7	6210.1	6244.4
32.5°	6895.7	6901.4	7061.4	7284.2	7701.3	7935.5	7529.9	7152.8	6844.3	6741.5	6690.1
35°	7547.0	7575.6	7701.3	8044.1	8506.8	8809.6	8364.0	7912.6	7558.4	7369.9	7392.7
37.5°	8352.6	8324.0	8535.4	8906.7	9392.4	9615.2	9238.1	8723.9	8364.0	8238.3	8318.2
40°	9209.5	9238.1	9346.6	9683.7	10226.5	10375.0	9815.1	9535.2	9221.0	9158.1	9255.2
42.5°	10066.5	10049.4	10129.3	10432.1	10826.4	10723.5	10392.2	10226.5	10003.6	9878.0	10009.3
45°	10694.9	10666.4	10814.9	11020.5	11163.4	10969.2	10820.6	10763.5	10649.2	10512.1	10632.1
47.5°	11306.2	11283.4	11426.2	11483.4	11494.8	11237.7	11266.3	11369.1	11083.5	10797.8	10934.9
50°	11826.1	11786.1	11963.2	12089.0	12060.4	11649.0	11751.9	11649.0	11203.4	10866.3	10814.9
52.5°	12694.6	12711.6	12900.2	13128.7	13060.1	12717.3	12568.8	12100.4	11529.0	11226.3	11049.1
55°	13243.0	13157.3	13482.9	14208.5	14288.5	13934.3	13277.3	12586.0	11729.0	11357.6	11312.0
56°	12728.8	12837.4	13351.5	14162.8	14574.1	14248.5	13294.4	12466.0	11523.3	11020.5	10986.3
57.5°	11420.5	11363.3	12060.4	13168.7	14288.5	14151.3	12825.9	11609.0	10512.1	9946.5	9878.0
60°	7107.1	7272.8	7884.1	9255.2	10752.1	10820.6	9506.6	8461.1	7181.4	6678.6	6798.6
62.5°	2782.3	2639.5	3022.2	4044.9	5073.2	5301.7	4804.7	3993.5	3279.3	2782.3	2748.0
65°	645.6	628.5	708.5	976.9	1365.4	1582.5	1502.5	1079.8	794.2	754.1	697.0
67.5°	365.7	365.7	348.5	348.5	382.7	405.6	388.5	382.7	399.9	417.1	411.3
70°	257.1	251.4	239.9	245.7	234.2	234.2	251.4	280.0	302.8	302.8	308.5
72.5°	154.2	154.2	154.2	171.4	171.4	171.4	188.6	211.3	217.1	211.3	205.7
75°	68.5	68.5	80.0	97.1	108.6	114.3	131.4	142.8	154.2	142.8	131.4
77.5°	17.2	17.2	28.6	40.0	51.4	62.8	85.7	102.9	108.6	102.9	85.7
80°	5.7	5.7	11.4	28.6	51.4	62.8	85.7	91.4	97.1	85.7	68.5
82.5°	5.7	5.7	11.4	28.6	40.0	51.4	68.5	80.0	85.7	74.3	68.5
85°	0.0	5.7	11.4	22.9	34.3	45.7	45.7	34.3	28.6	17.2	22.9
87.5°	0.0	0.0	5.7	5.7	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)