

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: P651612

Luminaire Tested: **GALN-SA9D-840-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51680.3 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - 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

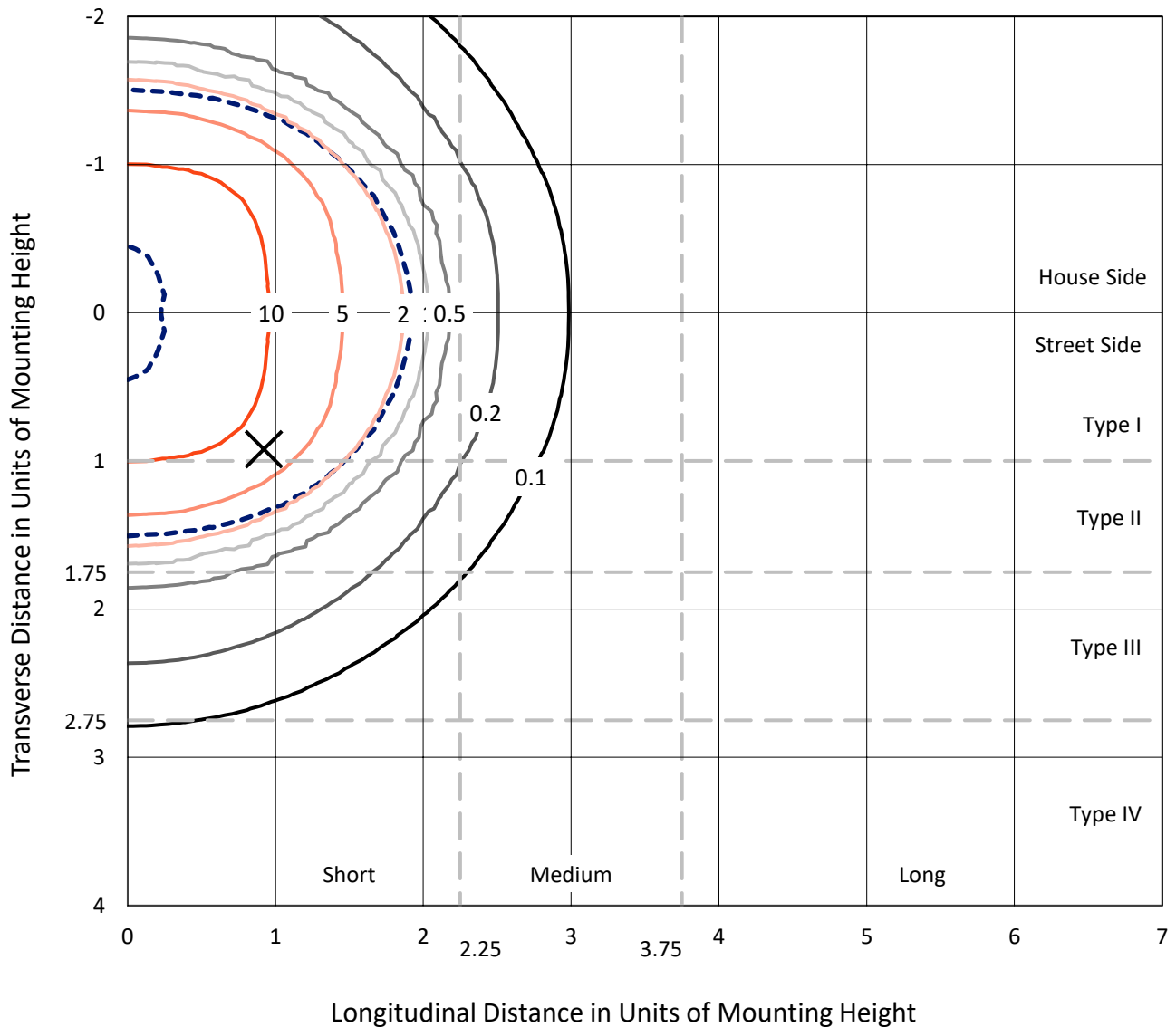




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Iso-Footcandle Lines of Horizontal Illumination

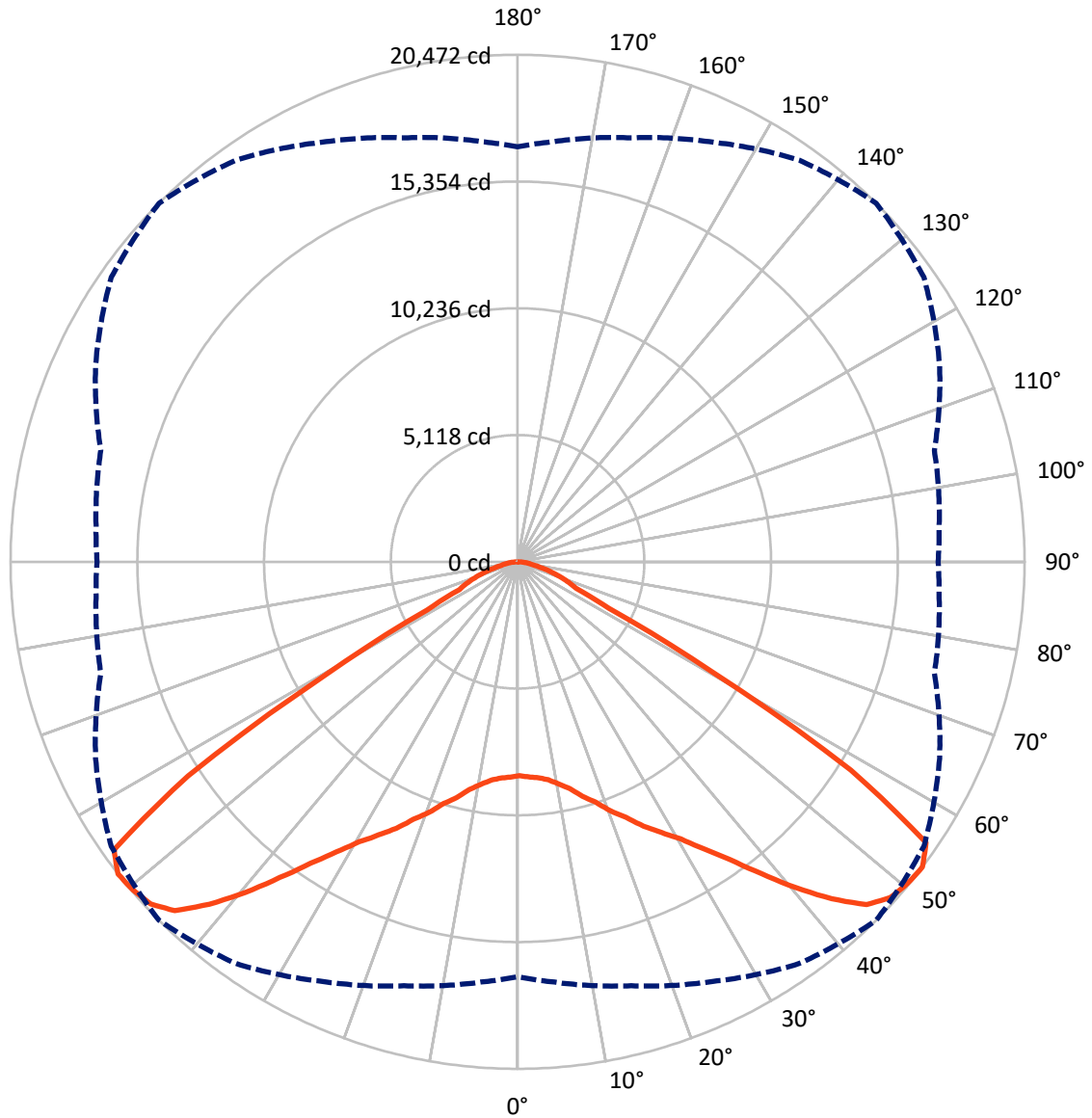
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25840.1	0.0	25840.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25840.1	0.0	25840.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	51680.3	0.0	51680.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.8	1.6
10°-20°	2789.0	5.4
20°-30°	5309.8	10.3
30°-40°	9117.3	17.6
40°-50°	14013.6	27.1
50°-60°	14230.5	27.5
60°-70°	3965.8	7.7
70°-80°	1169.9	2.3
80°-90°	235.6	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°	51680.3	100.0
0°-180°	51680.3	100.0

Coefficient of Utilization

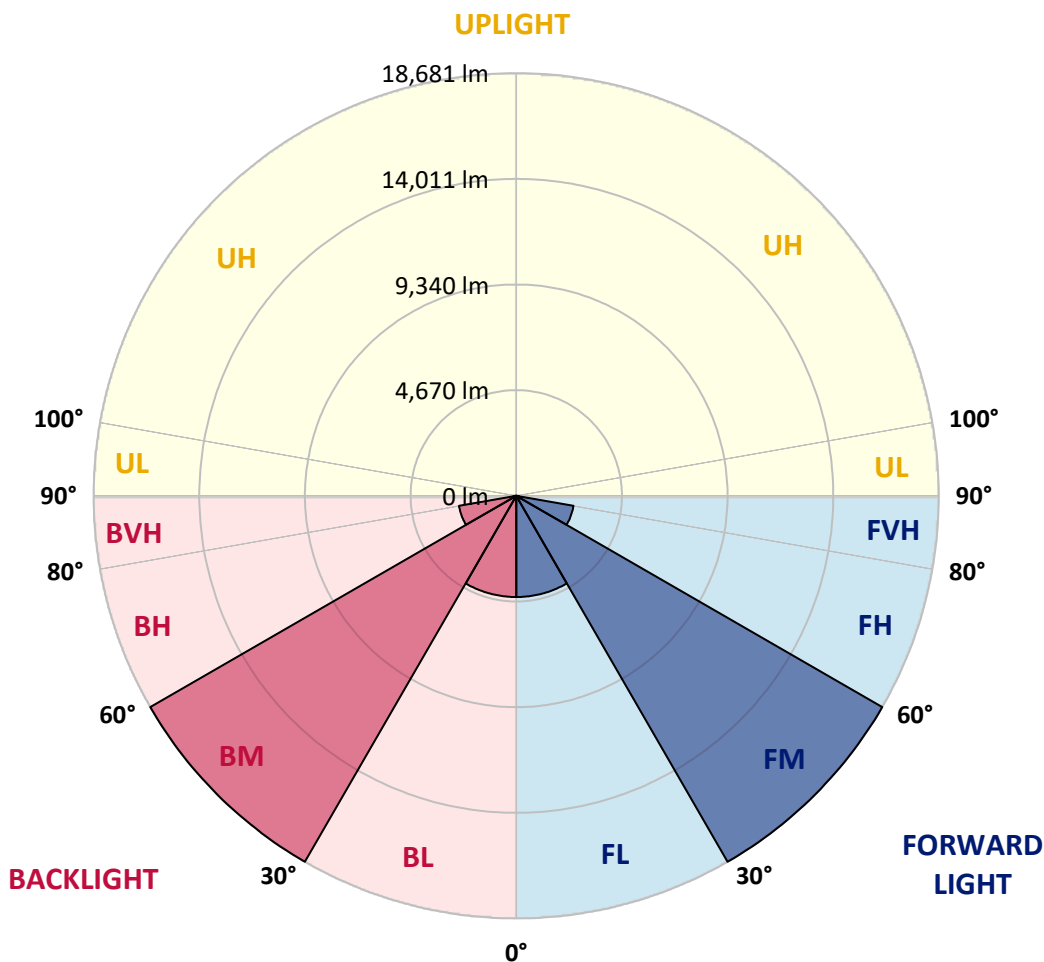


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4473.8	8.7			
FM (30°-60°)	18680.7	36.1			
FH (60°-80°)	2567.9	5.0			G2/5000
FVH (80°-90°)	117.8	0.2			G2/225
BL (0°-30°)	4473.8	8.7	B4/5000		
BM (30°-60°)	18680.7	36.1	B5		
BH (60°-80°)	2567.9	5.0	B4/5000		G2/5000
BVH (80°-90°)	117.8	0.2			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°	8639.0	8639.0	8639.0	8639.0	8639.0	8639.0	8639.0	8639.0	8639.0	8639.0	8639.0
2.5°	8658.3	8568.5	8600.6	8619.8	8703.2	8696.8	8677.5	8703.2	8728.8	8735.2	8722.4
5°	8651.9	8587.7	8613.4	8632.6	8716.0	8760.9	8748.1	8857.1	8934.0	8914.9	9011.1
7.5°	8600.6	8639.0	8607.0	8703.2	8773.7	8882.7	8998.2	9100.8	9197.0	9306.1	9325.3
10°	8716.0	8716.0	8773.7	8850.7	9036.7	9120.1	9286.8	9434.3	9620.3	9748.6	9697.2
12.5°	8837.9	8857.1	8857.1	9055.9	9209.9	9395.8	9549.7	9748.6	10011.5	10165.5	10242.5
15°	8959.7	8972.5	9036.7	9306.1	9536.9	9832.0	9973.1	10152.6	10300.1	10588.8	10595.2
17.5°	9068.8	9139.3	9331.7	9633.2	9921.8	10203.9	10428.4	10614.4	10742.7	10858.2	10832.5
20°	9479.2	9530.5	9729.4	10030.8	10460.5	10736.3	10813.2	10845.3	10928.7	11159.6	11089.0
22.5°	9876.9	9896.1	10082.1	10543.9	10845.3	11210.9	11294.2	11275.0	11307.1	11364.8	11467.5
25°	10287.3	10319.4	10575.9	10967.1	11390.4	11826.6	11897.1	11749.6	11704.7	11768.9	11775.3
27.5°	10813.2	10819.6	11146.7	11486.6	11967.7	12378.2	12487.2	12371.7	12160.1	12211.4	12294.7
30°	11480.2	11435.3	11762.5	12249.8	12756.5	12987.4	13173.4	13115.7	12884.8	12839.9	12769.3
32.5°	12249.8	12262.7	12557.7	13090.1	13423.5	13808.4	14007.2	13911.0	13763.5	13686.5	13731.4
35°	13333.7	13391.5	13590.3	14032.8	14571.6	14764.0	15078.2	14873.0	14488.2	14584.4	14667.8
37.5°	14225.3	14391.9	14764.0	15289.9	15610.6	15963.3	16078.7	15803.0	15520.7	15405.4	15681.1
40°	15591.3	15540.0	15950.5	16476.4	16951.0	17303.7	17156.2	16880.5	16181.3	16187.8	16264.8
42.5°	16765.0	16790.6	17104.9	17733.4	18381.2	18599.3	18131.1	17457.6	16681.7	16598.2	16765.0
45°	17752.7	17855.3	18034.9	18875.1	19510.0	19747.3	18881.5	18086.2	17047.2	16700.8	16976.7
47.5°	18105.5	18272.2	18663.4	19433.1	20061.6	20254.0	19561.3	18419.7	17387.1	16822.7	16970.2
50°	18156.8	18099.0	18740.3	19445.9	19997.5	20414.3	19805.0	18663.4	17303.7	17008.7	16963.8
52.5°	16752.1	17034.4	17720.6	18689.0	19805.0	20472.0	20023.1	18798.1	17419.2	17085.7	16976.7
55°	13558.3	13224.7	14475.4	16104.4	18156.8	20010.2	19946.1	18868.7	17489.7	17213.9	17066.4
57.5°	7568.0	7664.2	8369.6	10139.8	12788.6	15867.1	17733.4	18124.6	17457.6	17297.4	17374.3
60°	3501.8	3533.9	3835.3	4662.7	6304.5	8998.2	11454.6	13949.4	15097.5	15328.4	15328.4
62.5°	2610.3	2597.5	2674.5	2822.0	3168.3	4136.7	5522.1	7503.8	9081.5	10184.7	10473.3
65°	2360.2	2353.8	2392.2	2443.5	2469.2	2603.9	2911.7	3521.0	4034.1	4329.1	4277.8
67.5°	2065.2	2058.8	2071.6	2103.7	2148.5	2219.1	2296.0	2424.4	2603.9	2591.0	2559.0
70°	1667.5	1667.5	1686.8	1712.4	1763.7	1847.1	1936.9	2026.6	2180.6	2212.7	2206.3
72.5°	1231.4	1212.1	1250.7	1302.0	1353.3	1455.9	1552.1	1635.5	1744.5	1776.5	1763.7
75°	782.5	795.2	820.9	878.7	968.4	1039.0	1141.6	1212.1	1282.7	1308.3	1314.7
77.5°	436.1	448.9	493.8	564.4	654.2	731.2	820.9	878.7	923.6	930.0	936.4
80°	263.0	269.4	314.3	378.4	455.4	538.7	609.3	667.0	705.5	686.3	679.9
82.5°	160.4	166.8	205.2	263.0	327.1	391.2	468.2	519.5	558.0	532.4	506.7
85°	83.3	89.8	121.9	160.4	211.7	243.7	243.7	218.1	211.7	198.8	192.4
87.5°	25.7	25.7	32.0	38.5	32.0	38.5	44.9	51.3	51.3	57.7	51.3
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)