

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: P651226

Luminaire Tested: **GALN-SA2D-840-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8454.6 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

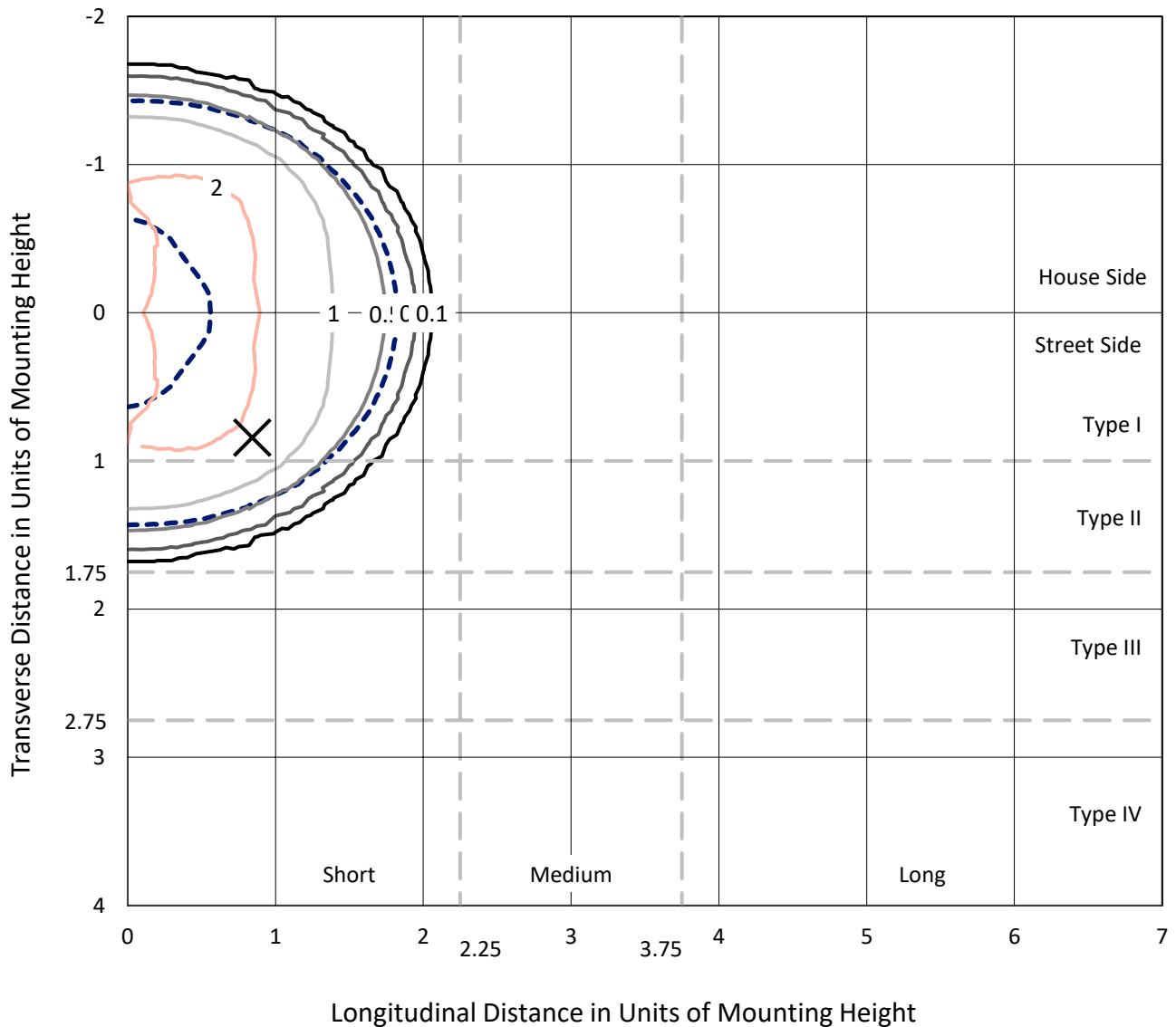
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

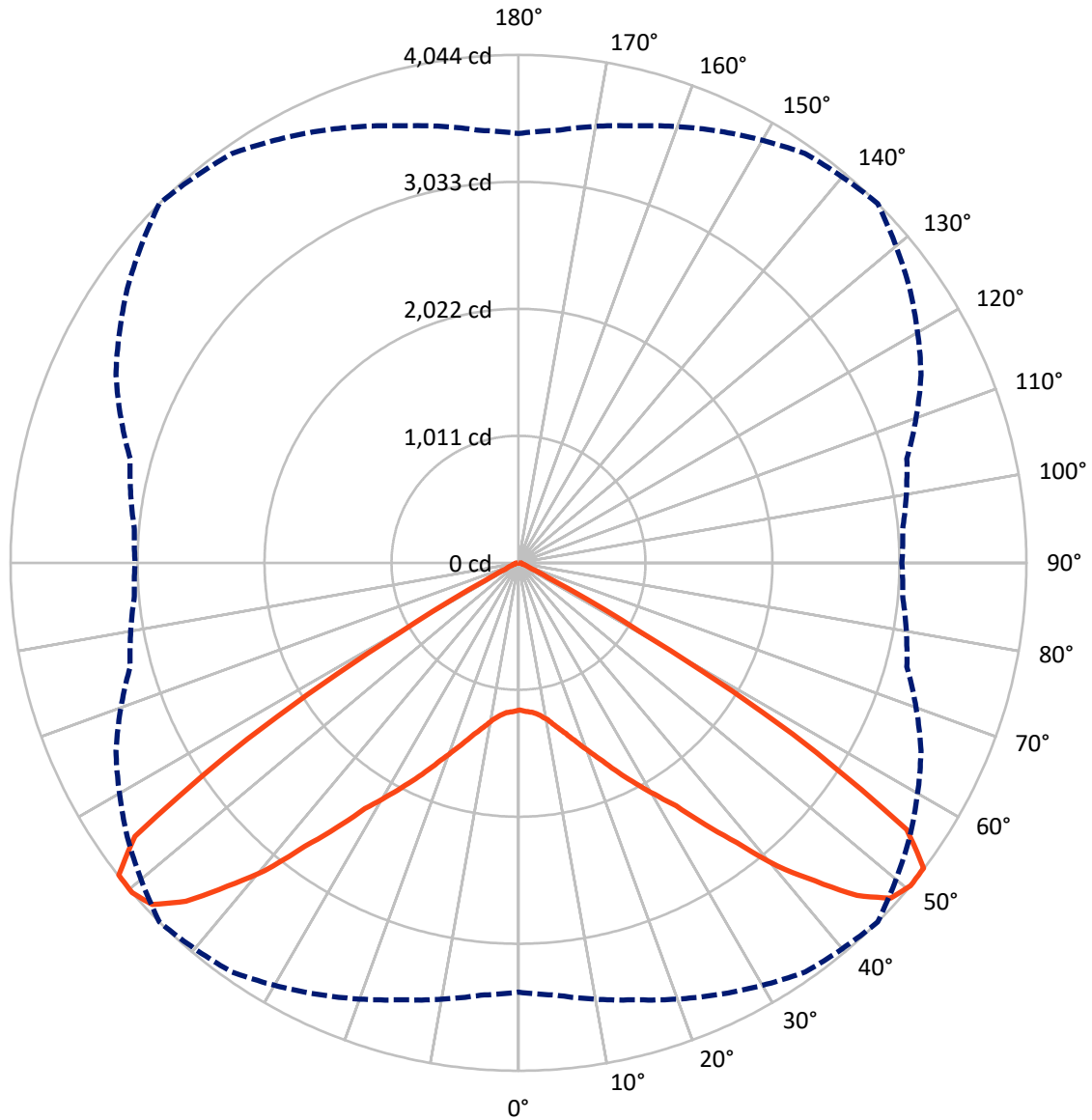
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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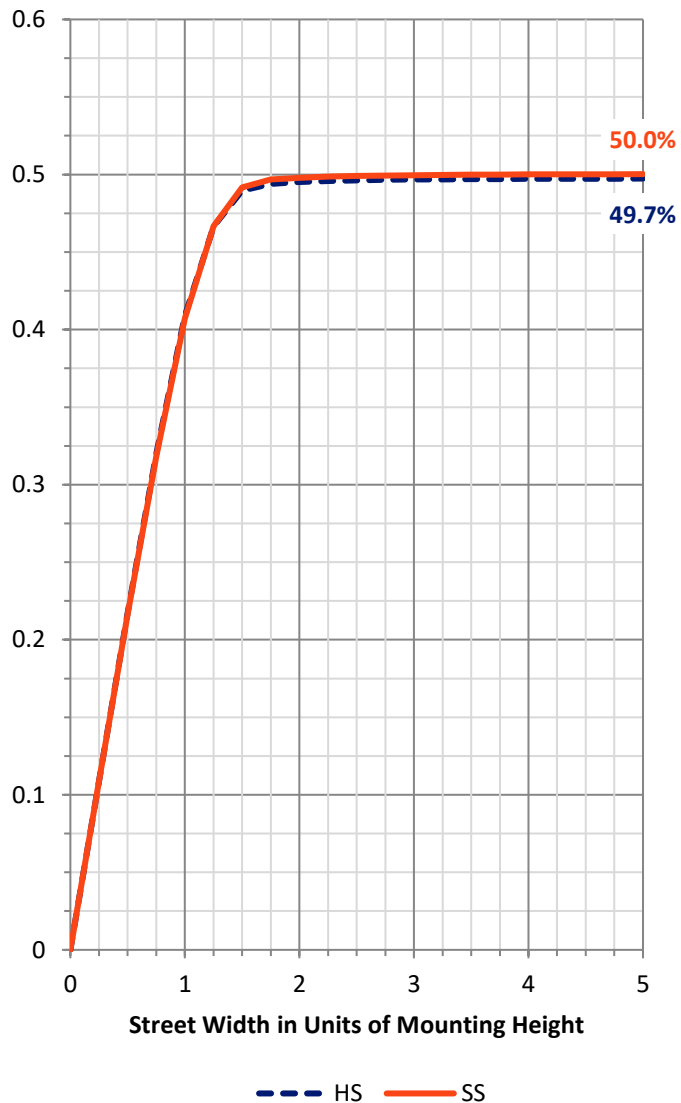
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4227.3	0.0	4227.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4227.3	0.0	4227.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8454.6	0.0	8454.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	1.4
10°-20°	401.9	4.8
20°-30°	820.8	9.7
30°-40°	1565.4	18.5
40°-50°	2637.9	31.2
50°-60°	2515.7	29.8
60°-70°	351.2	4.2
70°-80°	33.6	0.4
80°-90°	11.6	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°	8454.6	100.0
0°-180°	8454.6	100.0

Coefficient of Utilization



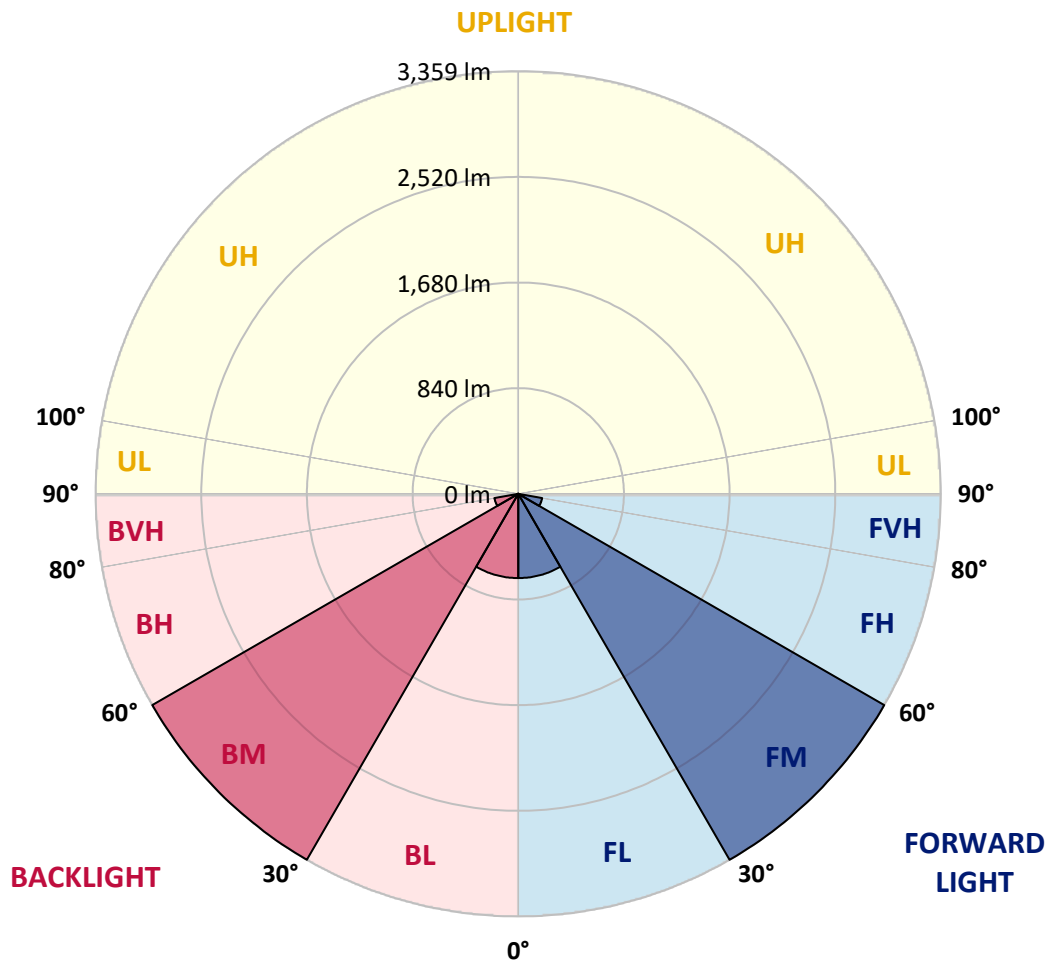
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	669.7	7.9			
FM (30°-60°)	3359.4	39.7			
FH (60°-80°)	192.4	2.3			G0/660
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	669.7	7.9	B2/1000		
BM (30°-60°)	3359.4	39.7	B3/5000		
BH (60°-80°)	192.4	2.3	B1/500		G0/660
BVH (80°-90°)	5.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1
2.5°	1167.9	1167.9	1166.5	1177.8	1172.1	1185.0	1183.5	1187.7	1192.0	1190.6	1202.0
5°	1157.9	1156.5	1156.5	1169.3	1182.1	1196.3	1209.1	1217.7	1231.9	1231.9	1246.1
7.5°	1167.9	1160.7	1170.7	1176.4	1200.6	1224.7	1246.1	1263.2	1295.9	1307.3	1303.0
10°	1170.7	1179.3	1186.4	1203.4	1233.3	1270.2	1288.7	1331.5	1368.5	1394.0	1399.8
12.5°	1189.2	1202.0	1221.9	1263.2	1290.2	1338.5	1364.2	1405.4	1456.6	1485.1	1505.0
15°	1224.7	1229.0	1254.6	1307.3	1365.6	1409.7	1449.5	1479.4	1529.2	1561.9	1563.3
17.5°	1270.2	1288.7	1324.3	1374.1	1435.3	1500.8	1532.0	1564.8	1583.3	1627.3	1637.3
20°	1361.3	1364.2	1398.3	1463.8	1540.5	1600.3	1623.0	1640.1	1633.1	1678.6	1687.0
22.5°	1446.7	1449.5	1492.2	1580.4	1662.9	1714.1	1724.0	1714.1	1692.8	1725.5	1728.3
25°	1533.5	1559.0	1590.3	1678.6	1781.0	1849.3	1850.6	1823.6	1779.6	1785.2	1799.5
27.5°	1668.5	1687.0	1719.8	1800.8	1913.3	1990.1	1977.3	1944.6	1887.6	1891.9	1887.6
30°	1826.5	1843.6	1870.6	1974.4	2056.9	2140.8	2159.4	2128.1	2042.7	2024.2	2045.6
32.5°	2017.1	2041.3	2091.1	2186.3	2256.1	2307.3	2320.1	2308.7	2229.1	2221.9	2236.1
35°	2248.9	2281.7	2327.2	2411.1	2468.0	2560.5	2560.5	2522.1	2449.5	2458.1	2456.6
37.5°	2493.6	2542.0	2613.2	2698.4	2775.3	2825.1	2809.4	2776.7	2704.2	2685.6	2704.2
40°	2800.9	2825.1	2914.7	3025.7	3119.5	3176.5	3109.6	3038.4	2864.9	2891.9	2941.7
42.5°	3081.1	3119.5	3187.8	3310.2	3416.8	3463.7	3384.1	3243.3	3034.2	3012.8	3049.8
45°	3320.1	3361.3	3451.0	3626.0	3738.3	3779.5	3603.2	3375.6	3136.6	3082.5	3098.2
47.5°	3479.4	3500.7	3626.0	3792.4	3894.8	3988.7	3735.5	3466.6	3185.0	3082.5	3076.9
50°	3418.2	3455.2	3601.8	3791.0	3977.3	4044.1	3802.3	3536.3	3200.6	3069.7	3052.7
52.5°	3035.6	3099.6	3263.2	3517.8	3799.5	4038.5	3894.8	3513.5	3195.0	3082.5	3108.2
55°	2112.4	2113.9	2313.0	2688.5	3186.4	3749.7	3759.6	3539.2	3231.9	3162.2	3163.6
57.5°	849.2	891.9	1044.1	1421.0	1880.6	2574.7	3061.2	3283.1	3236.2	3219.1	3263.2
60°	214.8	216.2	263.1	401.2	661.4	1103.8	1603.1	2169.3	2497.9	2610.3	2625.9
62.5°	109.5	110.9	122.4	142.2	180.6	295.9	526.3	835.0	1187.7	1367.0	1414.0
65°	89.7	89.7	96.7	106.7	108.1	113.8	136.6	194.9	283.1	321.5	325.7
67.5°	68.3	68.3	74.0	79.6	82.5	81.1	78.2	81.1	98.1	93.9	91.1
70°	42.6	44.1	46.9	52.6	55.5	56.9	58.3	61.1	69.7	72.6	69.7
72.5°	25.6	25.6	27.0	31.3	35.6	38.4	42.6	45.5	49.8	56.9	55.5
75°	11.4	11.4	14.2	18.5	22.8	27.0	31.3	35.6	38.4	42.6	44.1
77.5°	2.9	4.3	7.1	12.8	17.1	22.8	28.4	32.7	35.6	35.6	34.1
80°	1.4	1.4	5.7	9.9	18.5	24.2	31.3	34.1	38.4	35.6	31.3
82.5°	1.4	1.4	5.7	9.9	17.1	24.2	32.7	37.0	39.9	35.6	29.9
85°	0.0	1.4	4.3	8.5	14.2	17.1	14.2	9.9	5.7	5.7	4.3
87.5°	0.0	0.0	1.4	1.4	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)