

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: P528771

Luminaire Tested: **GALN-SA3D-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528771  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-827-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8855 lumens  
Efficiency: N/A  
Efficacy: 48.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

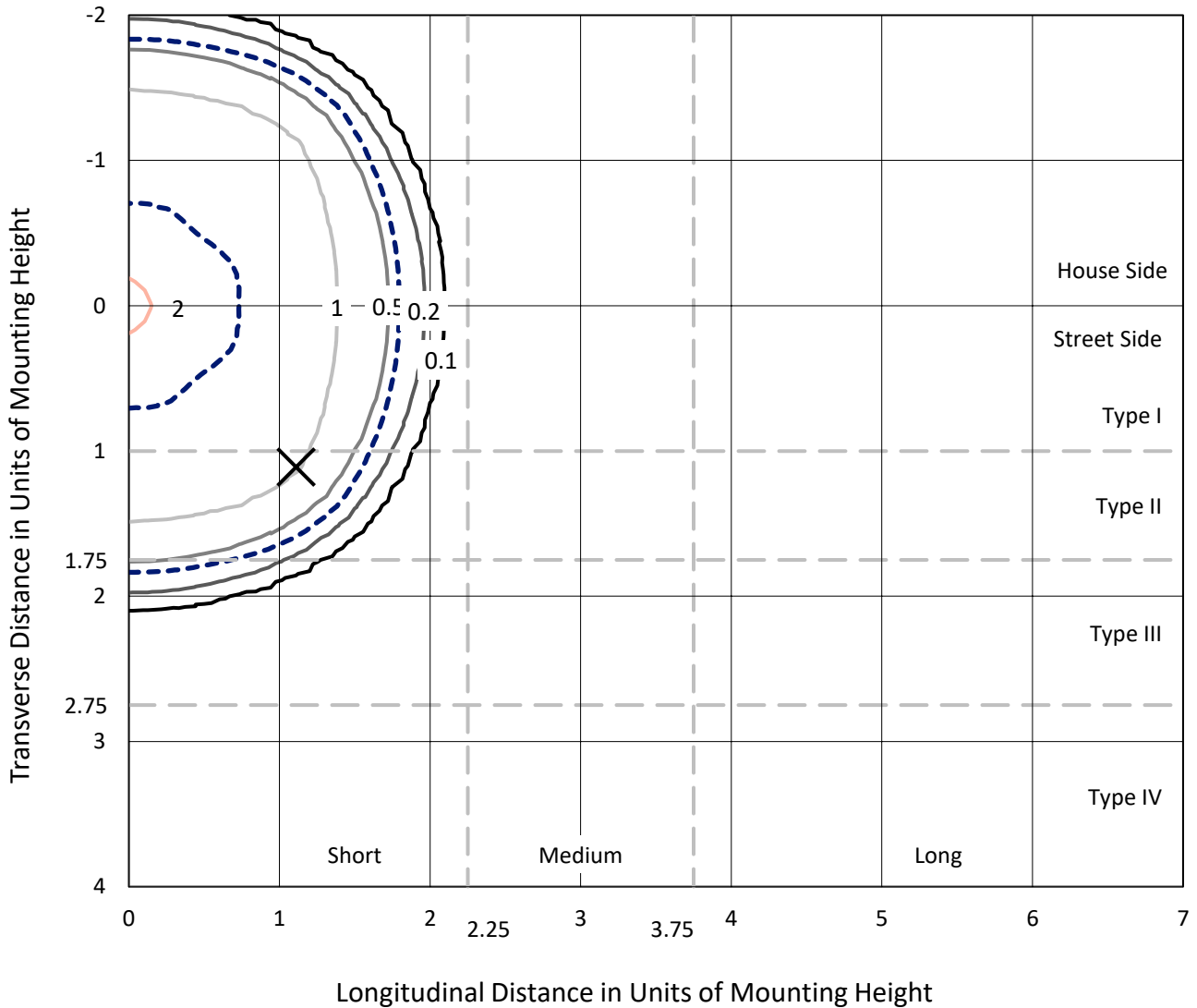
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

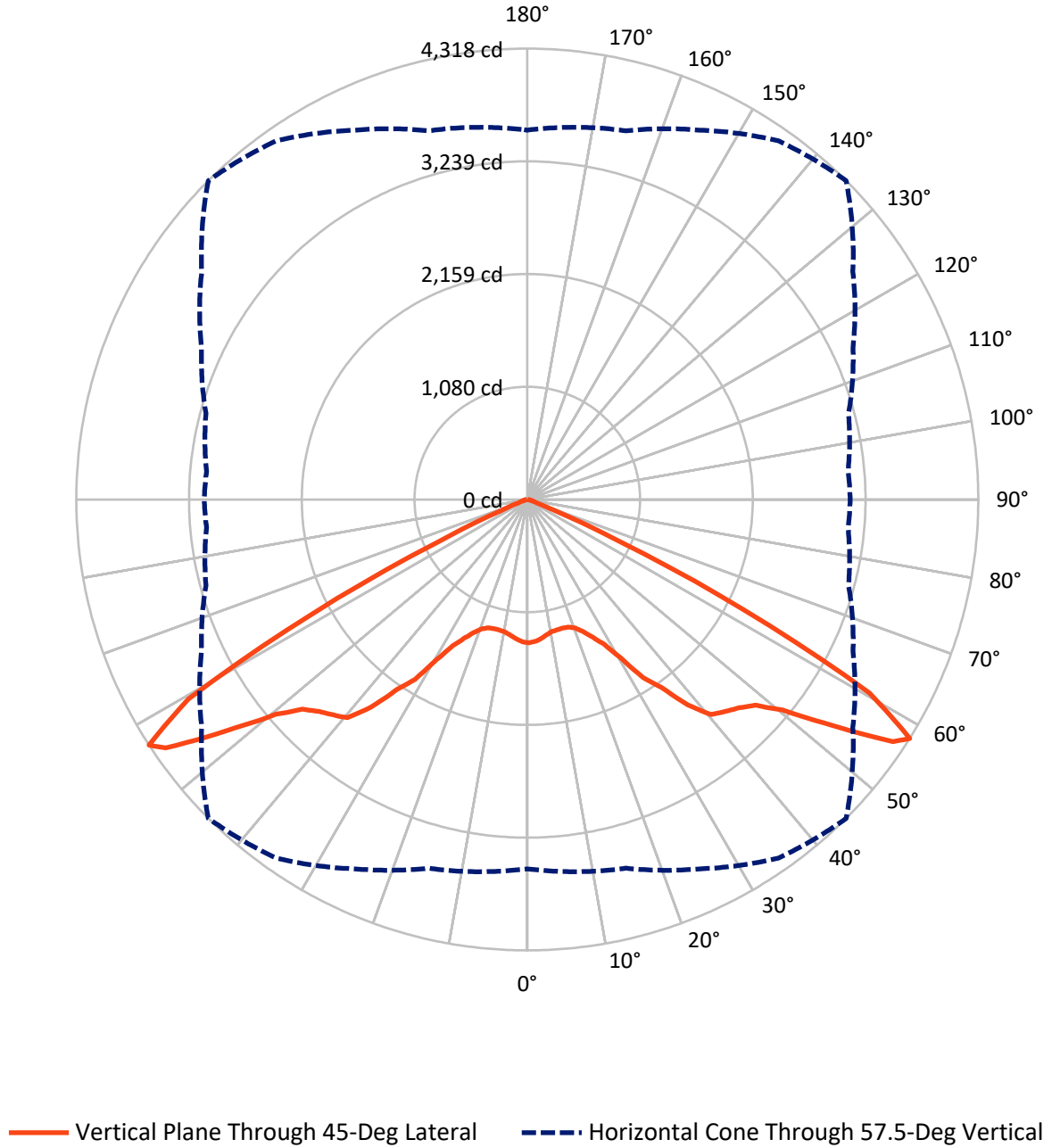
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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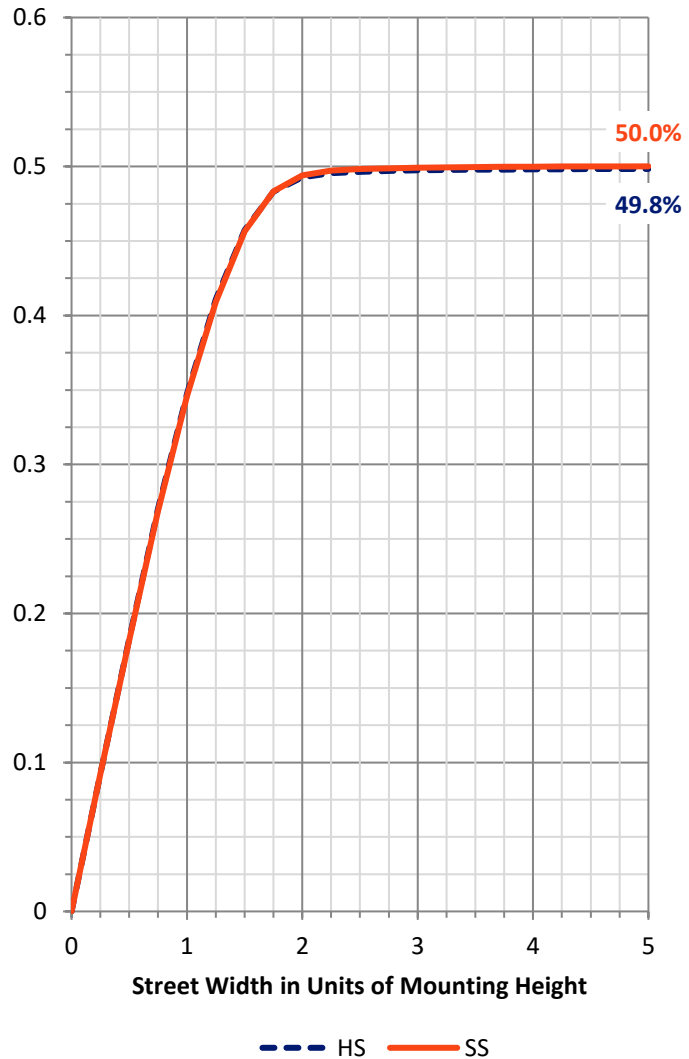
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4427.5	0.0	4427.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4427.5	0.0	4427.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8855.0	0.0	8855.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.2	1.4
10°-20°	364.8	4.1
20°-30°	673.4	7.6
30°-40°	1324.4	15.0
40°-50°	2157.0	24.4
50°-60°	3076.2	34.7
60°-70°	1065.1	12.0
70°-80°	57.1	0.6
80°-90°	10.7	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°	8855.0	100.0
0°-180°	8855.0	100.0

**Coefficient of Utilization**

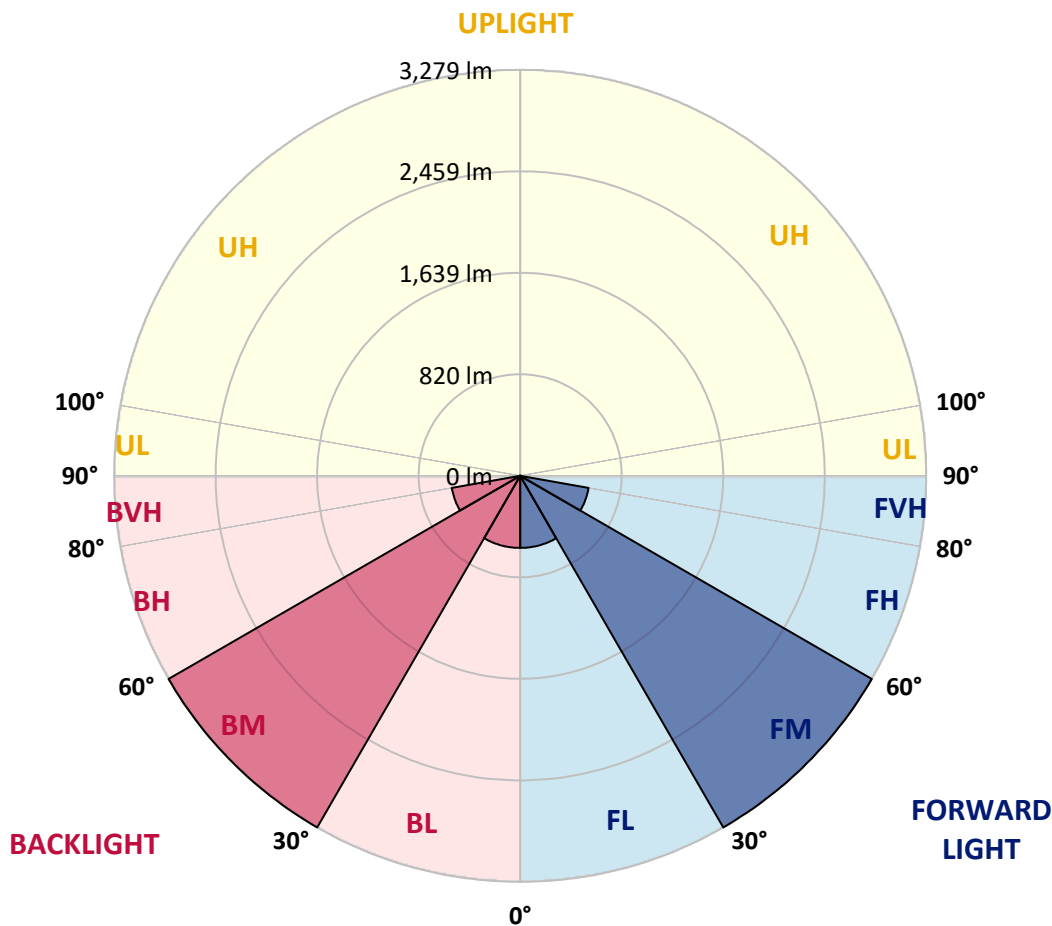


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	582.2	6.6			
FM (30°-60°)	3278.8	37.0			
FH (60°-80°)	561.1	6.3			G0/660
FVH (80°-90°)	5.4	0.1			G0/10
BL (0°-30°)	582.2	6.6	B2/1000		
BM (30°-60°)	3278.8	37.0	B3/5000		
BH (60°-80°)	561.1	6.3	B2/1000		G0/660
BVH (80°-90°)	5.4	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°	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5
2.5°	1369.8	1377.2	1368.0	1364.3	1362.4	1362.4	1356.9	1356.9	1355.0	1356.9	1349.5
5°	1347.7	1355.0	1355.0	1353.2	1342.1	1340.3	1334.7	1331.0	1332.9	1325.5	1331.0
7.5°	1325.5	1331.0	1323.7	1321.8	1318.1	1310.7	1308.9	1292.3	1294.1	1294.1	1297.8
10°	1321.8	1320.0	1308.9	1299.7	1288.6	1286.7	1281.2	1277.5	1277.5	1275.7	1281.2
12.5°	1321.8	1312.6	1310.7	1290.4	1272.0	1279.4	1264.6	1255.4	1268.3	1272.0	1279.4
15°	1320.0	1329.2	1297.8	1288.6	1275.7	1277.5	1264.6	1255.4	1262.7	1266.4	1272.0
17.5°	1331.0	1325.5	1316.3	1297.8	1292.3	1284.9	1268.3	1260.9	1260.9	1270.1	1272.0
20°	1360.6	1345.8	1327.4	1318.1	1323.7	1314.4	1294.1	1266.4	1273.8	1281.2	1286.7
22.5°	1388.3	1377.2	1364.3	1358.7	1390.1	1375.3	1340.3	1308.9	1297.8	1310.7	1320.0
25°	1441.8	1441.8	1417.8	1425.2	1460.3	1462.1	1421.5	1366.1	1358.7	1364.3	1368.0
27.5°	1550.7	1556.3	1536.0	1543.3	1558.1	1571.0	1536.0	1489.8	1473.2	1471.3	1476.9
30°	1668.9	1680.0	1678.1	1709.5	1752.0	1759.3	1707.6	1632.0	1582.1	1572.9	1580.3
32.5°	1824.0	1829.5	1825.8	1862.7	1977.2	2030.7	1896.0	1788.9	1722.4	1739.0	1722.4
35°	2115.6	2110.1	2069.5	2076.9	2171.0	2209.8	2080.6	2012.3	1980.9	2014.1	2006.7
37.5°	2366.7	2346.4	2313.2	2361.2	2459.0	2494.1	2359.3	2239.3	2182.1	2237.5	2261.5
40°	2579.0	2527.3	2481.2	2529.2	2660.2	2708.2	2510.7	2412.9	2390.7	2431.3	2483.0
42.5°	2758.1	2724.9	2663.9	2667.6	2754.4	2776.5	2617.8	2560.5	2538.4	2603.0	2628.9
45°	2885.5	2854.1	2796.9	2793.2	2859.6	2844.9	2702.7	2663.9	2676.9	2719.3	2732.2
47.5°	2950.1	2966.7	2933.5	2942.7	2977.8	2942.7	2830.1	2830.1	2800.5	2826.4	2813.5
50°	3136.5	3084.8	3127.3	3127.3	3164.2	3167.9	3055.3	3014.7	2935.3	2891.0	2891.0
52.5°	3354.4	3358.1	3374.7	3435.6	3498.4	3551.9	3391.3	3217.8	3084.8	3027.6	3020.2
55°	3533.4	3570.4	3636.8	3751.3	3932.2	4006.1	3729.1	3419.0	3256.5	3167.9	3149.5
56°	3631.3	3596.2	3710.7	3867.6	4103.9	4199.9	3784.5	3459.6	3280.5	3180.8	3179.0
57.5°	3537.1	3575.9	3655.3	3902.7	4192.5	4318.0	3804.8	3441.1	3184.5	3083.0	3092.2
60°	2793.2	2830.1	2937.2	3214.1	3668.2	3766.1	3219.6	2837.5	2608.5	2462.7	2464.6
62.5°	1580.3	1608.0	1691.0	1947.6	2230.1	2324.2	2006.7	1752.0	1593.2	1512.0	1486.1
65°	581.5	570.4	583.4	714.4	888.0	967.4	834.4	705.2	622.1	592.6	581.5
67.5°	217.8	201.2	188.3	201.2	252.9	267.7	245.5	204.9	192.0	197.5	201.2
70°	134.8	127.4	101.5	96.0	94.2	92.3	97.8	103.4	118.2	138.5	142.2
72.5°	94.2	88.6	72.0	68.3	64.6	62.8	72.0	79.4	92.3	107.1	108.9
75°	36.9	38.8	36.9	40.6	42.5	44.3	51.7	57.2	62.8	62.8	60.9
77.5°	7.4	7.4	11.1	14.8	18.5	24.0	35.1	40.6	42.5	40.6	35.1
80°	0.0	0.0	3.7	7.4	14.8	20.3	31.4	35.1	38.8	35.1	27.7
82.5°	0.0	0.0	3.7	9.2	14.8	18.5	29.5	36.9	42.5	38.8	29.5
85°	0.0	0.0	3.7	7.4	11.1	12.9	12.9	9.2	9.2	5.5	3.7
87.5°	0.0	0.0	0.0	0.0	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)