

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: P450973

Luminaire Tested: **GALN-SA1D-750-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450973  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-750-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8210 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

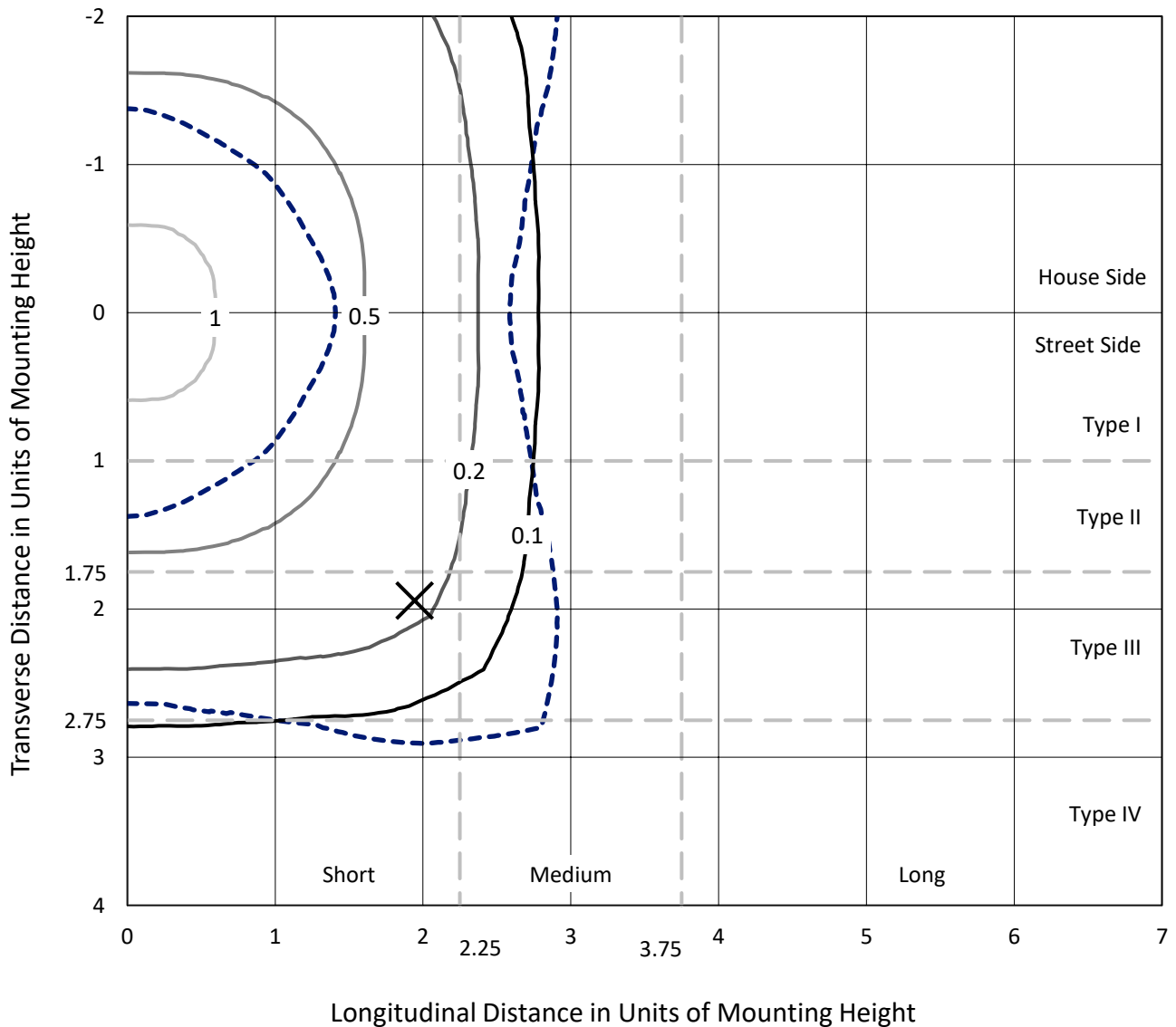
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

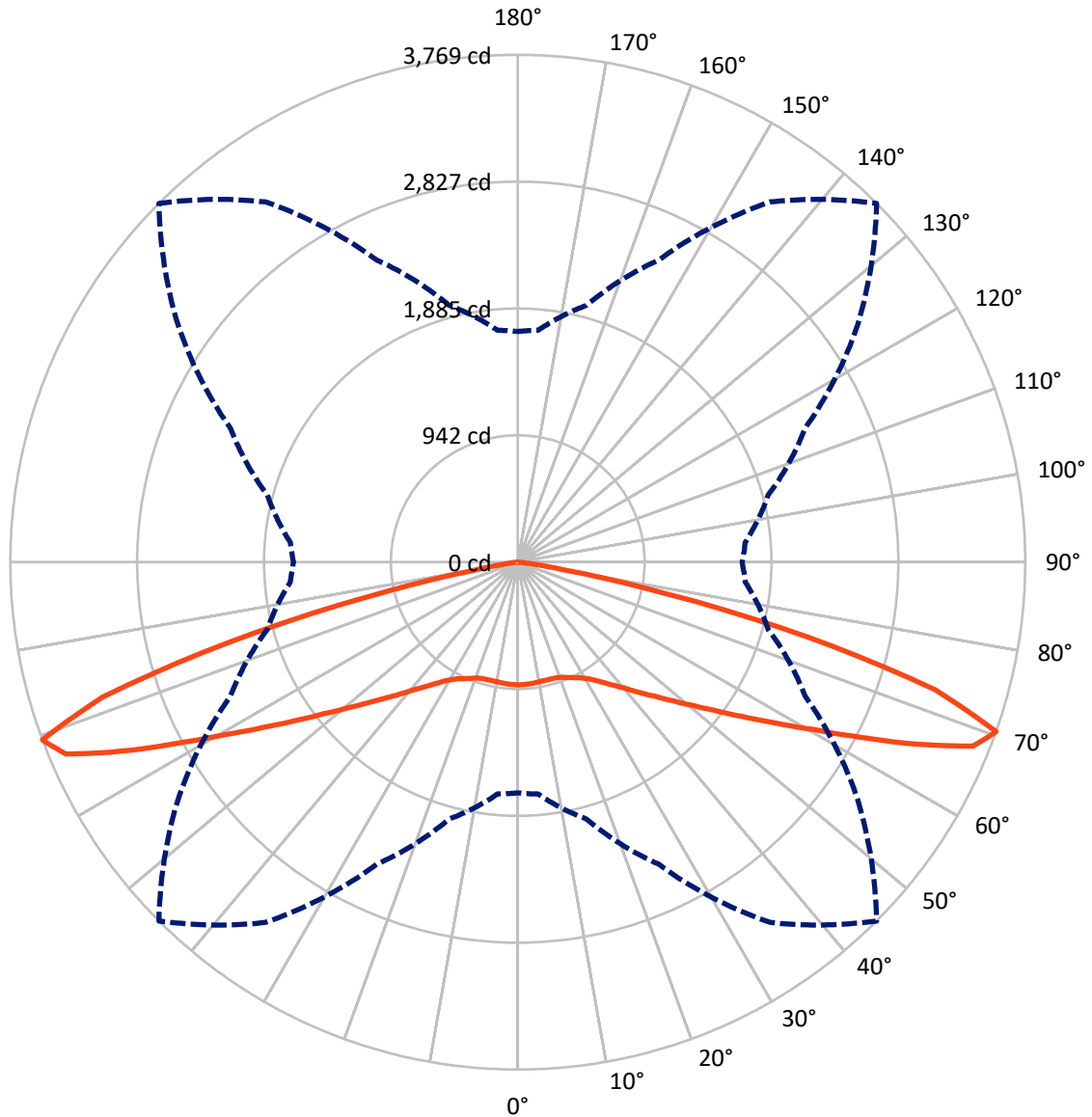
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4105.0	0.0	4105.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4105.0	0.0	4105.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8210.0	0.0	8210.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.5	1.1
10°-20°	253.7	3.1
20°-30°	433.9	5.3
30°-40°	688.7	8.4
40°-50°	1111.0	13.5
50°-60°	1807.6	22.0
60°-70°	2620.4	31.9
70°-80°	1162.3	14.2
80°-90°	45.8	0.6
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°	8210.0	100.0
0°-180°	8210.0	100.0

**Coefficient of Utilization**



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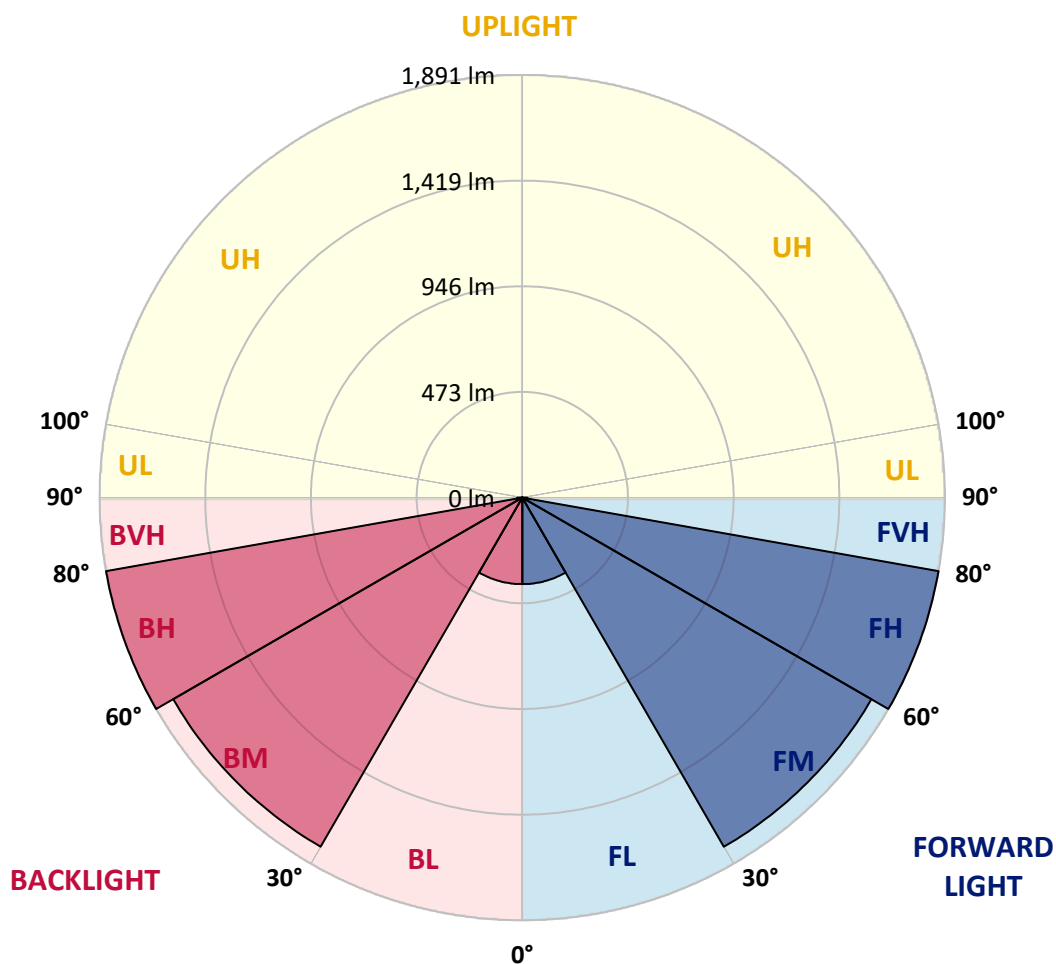
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.0	4.7			
FM (30°-60°)	1803.7	22.0			
FH (60°-80°)	1891.4	23.0			G2/5000
FVH (80°-90°)	22.9	0.3			G1/100
BL (0°-30°)	387.0	4.7	B1/500		
BM (30°-60°)	1803.7	22.0	B2/2500		
BH (60°-80°)	1891.4	23.0	B3/2500		G2/5000
BVH (80°-90°)	22.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7
2.5°	911.7	912.5	911.2	910.4	910.0	910.0	909.5	910.0	912.5	913.0	911.7
5°	909.1	910.0	909.5	908.7	908.2	908.2	907.8	907.4	909.5	910.4	910.0
7.5°	905.6	906.1	905.6	905.2	905.6	905.2	903.9	903.0	904.8	904.8	904.3
10°	899.6	900.4	900.0	900.4	901.3	901.3	899.6	897.8	898.3	897.4	897.4
12.5°	892.2	893.5	893.9	895.7	897.8	900.4	896.5	892.6	891.8	891.3	890.9
15°	887.5	888.7	890.5	892.2	896.1	901.7	896.1	890.0	888.3	886.6	885.7
17.5°	886.2	887.9	890.5	893.1	898.3	903.9	899.1	893.1	888.7	886.2	885.3
20°	889.6	890.9	894.8	899.6	906.9	912.5	907.8	901.3	894.8	890.9	889.6
22.5°	896.5	898.7	903.5	912.1	922.5	930.7	924.2	913.4	903.0	897.8	896.1
25°	911.7	913.4	919.0	930.7	942.8	950.6	943.7	931.2	916.9	910.0	907.8
27.5°	934.6	937.2	943.3	957.1	967.1	971.4	966.6	958.0	947.6	940.2	938.5
30°	967.1	970.1	979.2	993.9	1000.4	1003.0	1000.8	995.2	987.8	980.0	978.3
32.5°	1010.8	1012.5	1022.9	1036.7	1042.8	1043.7	1041.1	1038.5	1026.3	1013.4	1012.5
35°	1059.7	1062.7	1075.2	1091.7	1097.3	1097.7	1092.5	1088.7	1074.4	1064.0	1064.0
37.5°	1124.6	1125.9	1138.0	1156.6	1162.6	1160.9	1158.3	1154.9	1139.7	1126.3	1126.7
40°	1200.7	1203.3	1213.7	1235.3	1235.3	1233.2	1234.9	1232.3	1217.2	1204.2	1204.6
42.5°	1291.2	1292.5	1305.0	1327.9	1326.2	1321.9	1323.6	1320.1	1310.6	1295.9	1290.7
45°	1387.6	1392.8	1414.5	1436.5	1433.1	1419.2	1426.2	1425.3	1416.6	1394.6	1395.9
47.5°	1504.0	1512.7	1533.5	1559.9	1556.0	1534.3	1542.1	1547.3	1535.2	1511.0	1506.6
50°	1635.1	1640.8	1671.5	1696.2	1692.7	1669.8	1687.5	1688.4	1658.1	1623.9	1623.9
52.5°	1774.9	1780.5	1822.1	1860.6	1862.7	1829.4	1843.7	1842.8	1793.5	1748.5	1739.9
55°	1931.5	1934.1	1987.8	2044.5	2056.6	2024.1	2025.9	2008.6	1944.5	1892.2	1887.4
57.5°	2093.4	2102.9	2162.2	2235.7	2271.6	2251.7	2242.6	2196.3	2134.5	2074.3	2071.3
60°	2272.5	2272.9	2349.9	2436.9	2509.6	2523.0	2485.8	2423.9	2343.9	2264.3	2260.8
62.5°	2396.7	2415.3	2512.6	2659.8	2790.0	2865.3	2767.1	2637.3	2479.8	2351.2	2338.3
65°	2422.2	2434.8	2583.2	2832.4	3098.5	3260.8	3033.6	2757.5	2488.8	2317.5	2308.8
67.5°	2215.8	2229.2	2429.1	2811.6	3314.9	3647.6	3206.7	2699.6	2334.8	2122.8	2105.9
70°	1713.9	1729.0	1976.1	2475.0	3266.8	3769.2	3083.4	2354.7	1925.5	1696.6	1665.9
72.5°	911.2	967.1	1178.2	1698.7	2651.5	3245.2	2528.2	1718.2	1241.8	1015.1	974.4
75°	332.7	339.7	457.4	753.3	1542.5	2225.3	1601.8	819.5	471.2	363.9	345.3
77.5°	137.6	137.2	150.6	227.6	560.3	1139.7	625.2	240.6	150.1	138.9	137.2
80°	81.3	81.3	89.6	94.8	147.5	344.0	164.9	107.3	90.0	82.2	83.5
82.5°	36.3	38.5	56.7	59.7	71.4	94.3	79.6	68.4	58.8	40.7	36.8
85°	19.9	17.3	29.9	31.2	34.2	35.0	37.6	37.2	34.2	19.9	20.3
87.5°	3.9	4.8	8.7	6.5	7.4	6.5	8.7	12.1	12.5	6.9	5.6
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)