

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: P451903

Luminaire Tested: **GALN-SA2D-750-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451903  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-750-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16282 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

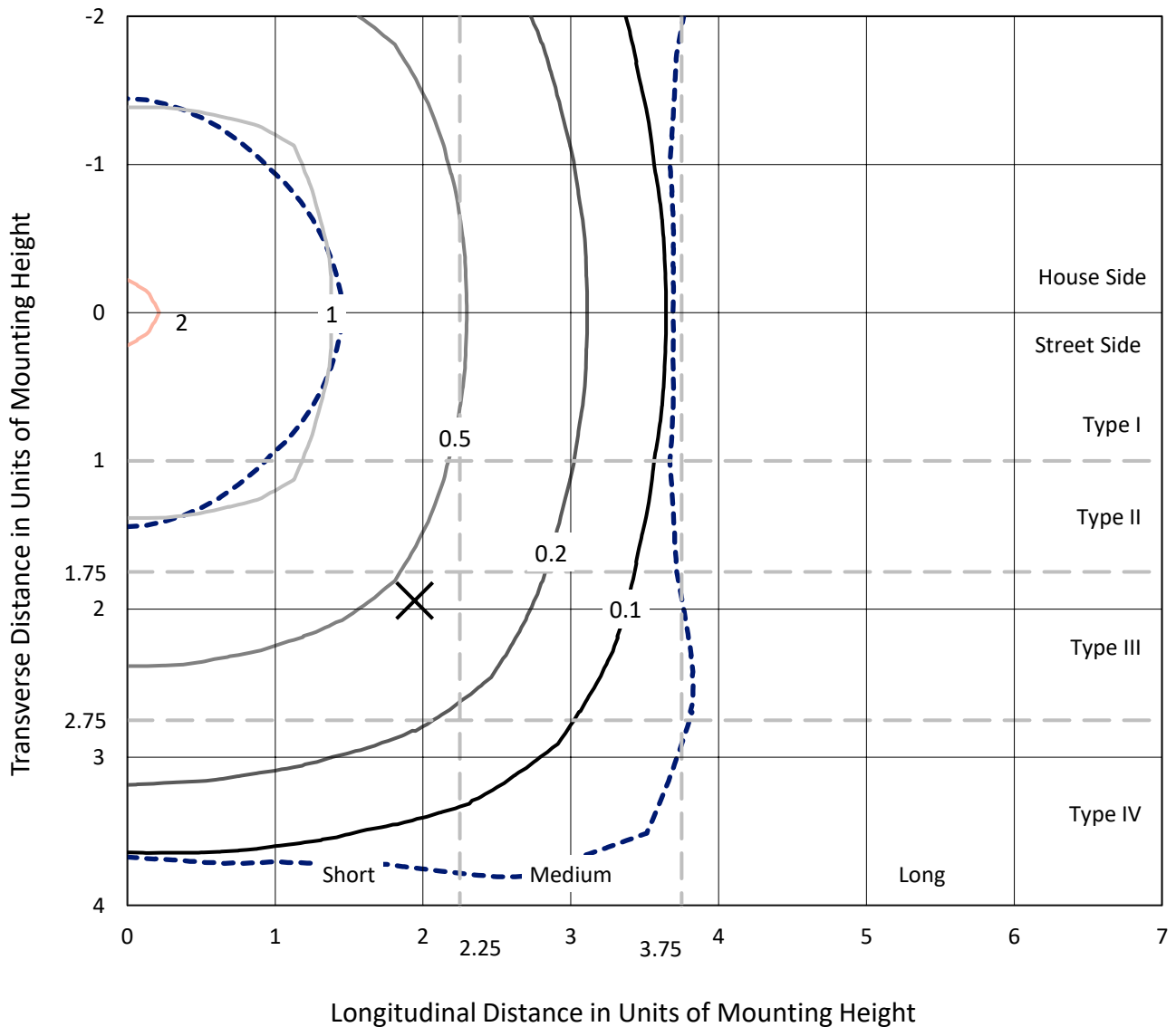
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

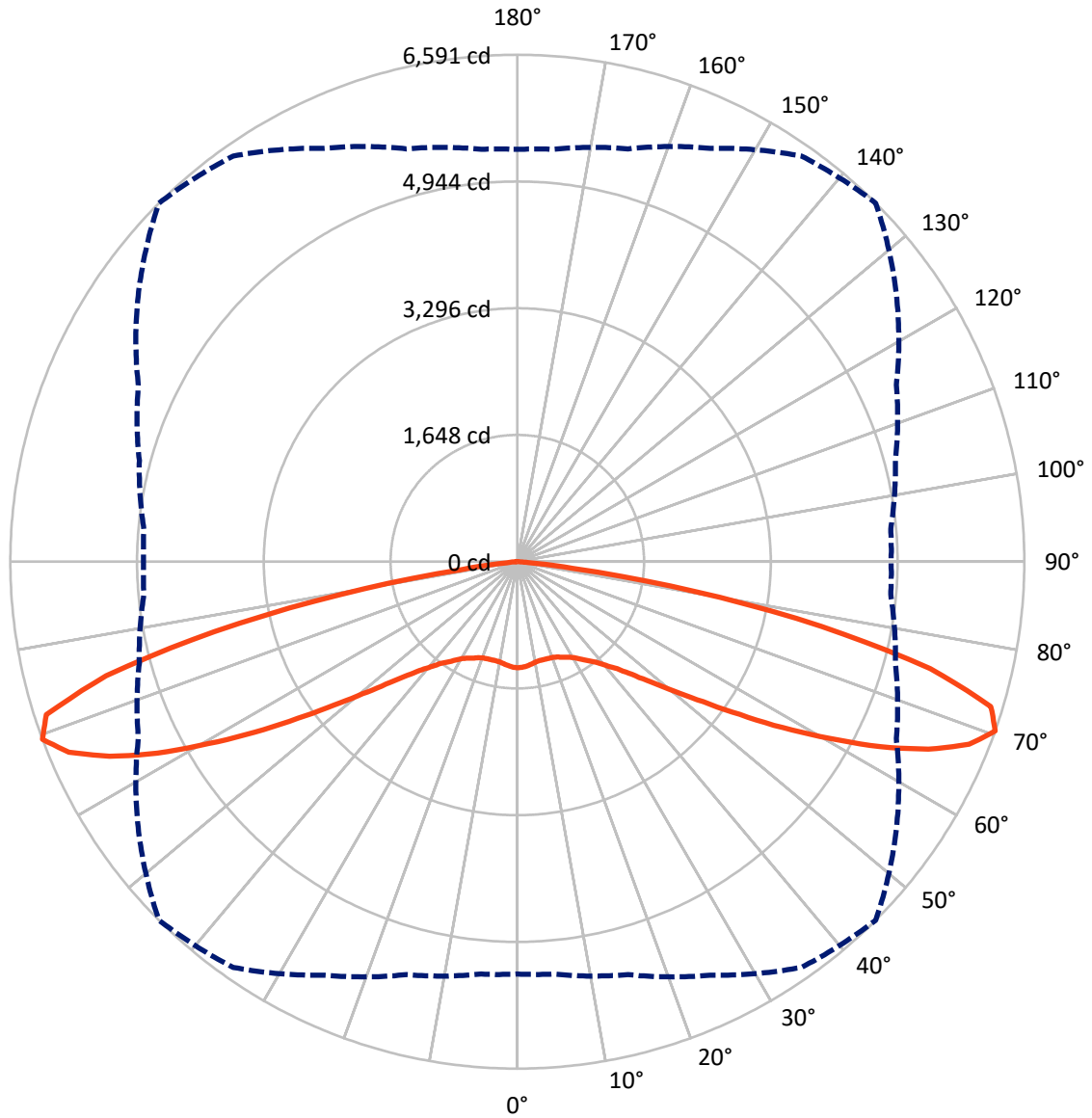
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	8141.0	0.0	8141.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8141.0	0.0	8141.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16282.0	0.0	16282.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.9	0.8
10°-20°	377.4	2.3
20°-30°	643.0	3.9
30°-40°	996.6	6.1
40°-50°	1677.5	10.3
50°-60°	3052.1	18.7
60°-70°	5167.2	31.7
70°-80°	3999.6	24.6
80°-90°	239.7	1.5
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°	16282.0	100.0
0°-180°	16282.0	100.0

**Coefficient of Utilization**



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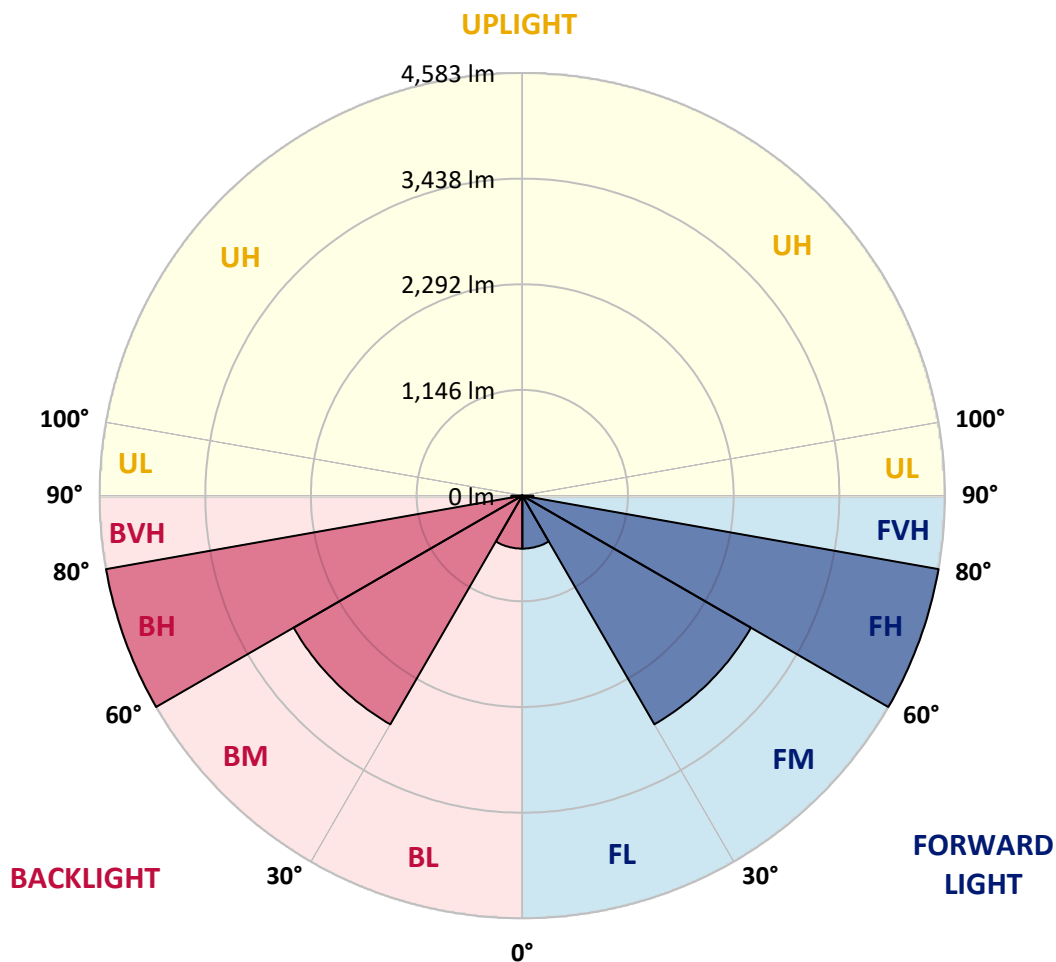
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	574.7	3.5			
FM (30°-60°)	2863.1	17.6			
FH (60°-80°)	4583.4	28.1			G2/5000
FVH (80°-90°)	119.8	0.7			G2/225
BL (0°-30°)	574.7	3.5	B2/1000		
BM (30°-60°)	2863.1	17.6	B3/5000		
BH (60°-80°)	4583.4	28.1	B4/5000		G2/5000
BVH (80°-90°)	119.8	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5	1378.5
2.5°	1375.0	1375.9	1375.9	1374.2	1373.3	1373.3	1372.5	1372.5	1375.0	1375.9	1376.8
5°	1363.0	1363.0	1363.0	1362.1	1360.4	1360.4	1358.7	1358.7	1359.6	1362.1	1360.4
7.5°	1346.7	1348.4	1348.4	1344.9	1342.4	1342.4	1341.5	1342.4	1343.2	1345.8	1344.9
10°	1341.5	1342.4	1338.1	1332.0	1327.7	1325.2	1326.0	1327.7	1332.0	1333.8	1334.6
12.5°	1344.9	1344.9	1337.2	1328.6	1320.9	1317.4	1316.6	1322.6	1330.3	1335.5	1337.2
15°	1349.2	1347.5	1338.1	1326.9	1319.1	1318.3	1317.4	1321.7	1332.9	1343.2	1344.1
17.5°	1351.8	1351.0	1338.9	1325.2	1320.9	1320.9	1320.0	1323.4	1335.5	1348.4	1349.2
20°	1360.4	1357.8	1344.1	1329.5	1326.0	1327.7	1325.2	1329.5	1342.4	1357.8	1361.3
22.5°	1377.6	1375.0	1361.3	1346.7	1344.9	1344.9	1344.1	1348.4	1362.1	1378.5	1381.1
25°	1398.2	1395.7	1382.8	1372.5	1374.2	1377.6	1375.9	1376.8	1387.9	1401.7	1406.0
27.5°	1425.8	1421.5	1410.3	1401.7	1406.8	1406.8	1406.8	1406.0	1412.9	1425.8	1430.1
30°	1459.3	1457.6	1445.5	1444.7	1449.0	1444.7	1444.7	1445.5	1446.4	1458.4	1462.7
32.5°	1503.2	1499.7	1493.7	1492.0	1504.0	1507.5	1495.4	1484.2	1490.3	1502.3	1504.9
35°	1575.4	1570.2	1561.6	1552.2	1561.6	1578.0	1552.2	1543.6	1559.1	1575.4	1577.1
37.5°	1673.4	1670.8	1657.1	1639.9	1639.0	1656.2	1629.6	1628.7	1657.9	1677.7	1680.3
40°	1796.4	1799.0	1781.8	1765.4	1756.8	1770.6	1750.0	1757.7	1786.1	1808.4	1806.7
42.5°	1969.2	1959.8	1933.1	1917.6	1908.2	1903.0	1897.9	1909.9	1941.7	1965.8	1984.7
45°	2171.3	2167.9	2134.4	2115.4	2094.8	2087.1	2085.3	2106.8	2145.5	2174.8	2177.3
47.5°	2400.1	2392.3	2370.8	2351.1	2343.3	2333.9	2325.3	2341.6	2380.3	2400.9	2406.9
50°	2635.7	2637.4	2637.4	2634.0	2641.7	2643.4	2620.2	2626.2	2647.7	2646.0	2644.3
52.5°	2904.8	2914.3	2959.0	2963.3	3000.3	3025.2	2983.1	2958.2	2950.4	2904.0	2907.4
55°	3221.3	3229.9	3297.0	3364.1	3463.8	3505.9	3417.4	3340.0	3284.9	3214.4	3217.9
57.5°	3616.0	3620.3	3683.9	3812.9	3971.2	4070.1	3914.4	3761.3	3649.6	3582.5	3555.8
60°	4040.8	4045.1	4138.0	4295.4	4541.3	4661.7	4469.1	4218.8	4077.8	3975.5	3982.3
62.5°	4550.8	4568.0	4651.4	4868.1	5166.5	5301.5	5046.1	4711.6	4520.7	4393.4	4398.6
65°	5096.8	5126.1	5217.2	5455.4	5730.6	5875.9	5562.9	5176.8	4939.4	4783.8	4800.1
67.5°	5451.1	5476.9	5608.5	5871.6	6214.7	6335.1	5930.9	5481.2	5184.5	4998.8	4964.4
70°	5360.8	5382.3	5557.7	5930.9	6439.2	6591.4	6018.7	5436.5	5087.4	4873.2	4859.5
72.5°	4732.2	4687.5	4943.7	5479.5	6182.9	6438.3	5742.6	4965.2	4525.8	4305.7	4279.9
75°	3136.2	3233.3	3611.7	4242.9	5231.0	5547.4	4901.6	3986.6	3433.7	3250.5	3222.2
77.5°	1048.3	1123.1	1459.3	2405.2	3566.1	4041.7	3571.3	2607.3	1844.6	1486.0	1492.8
80°	277.8	274.3	355.2	661.3	1541.0	2340.7	1793.8	883.1	483.3	350.0	331.9
82.5°	99.8	111.8	143.6	183.2	408.5	727.5	513.4	247.7	181.4	134.1	129.8
85°	43.9	43.0	61.9	73.1	102.3	135.9	120.4	104.9	92.0	61.1	56.8
87.5°	9.5	9.5	14.6	11.2	18.1	18.1	22.4	26.7	27.5	18.1	14.6
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)