

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: P450514

Luminaire Tested: **GALN-SA1B-750-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450514  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-750-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5940 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

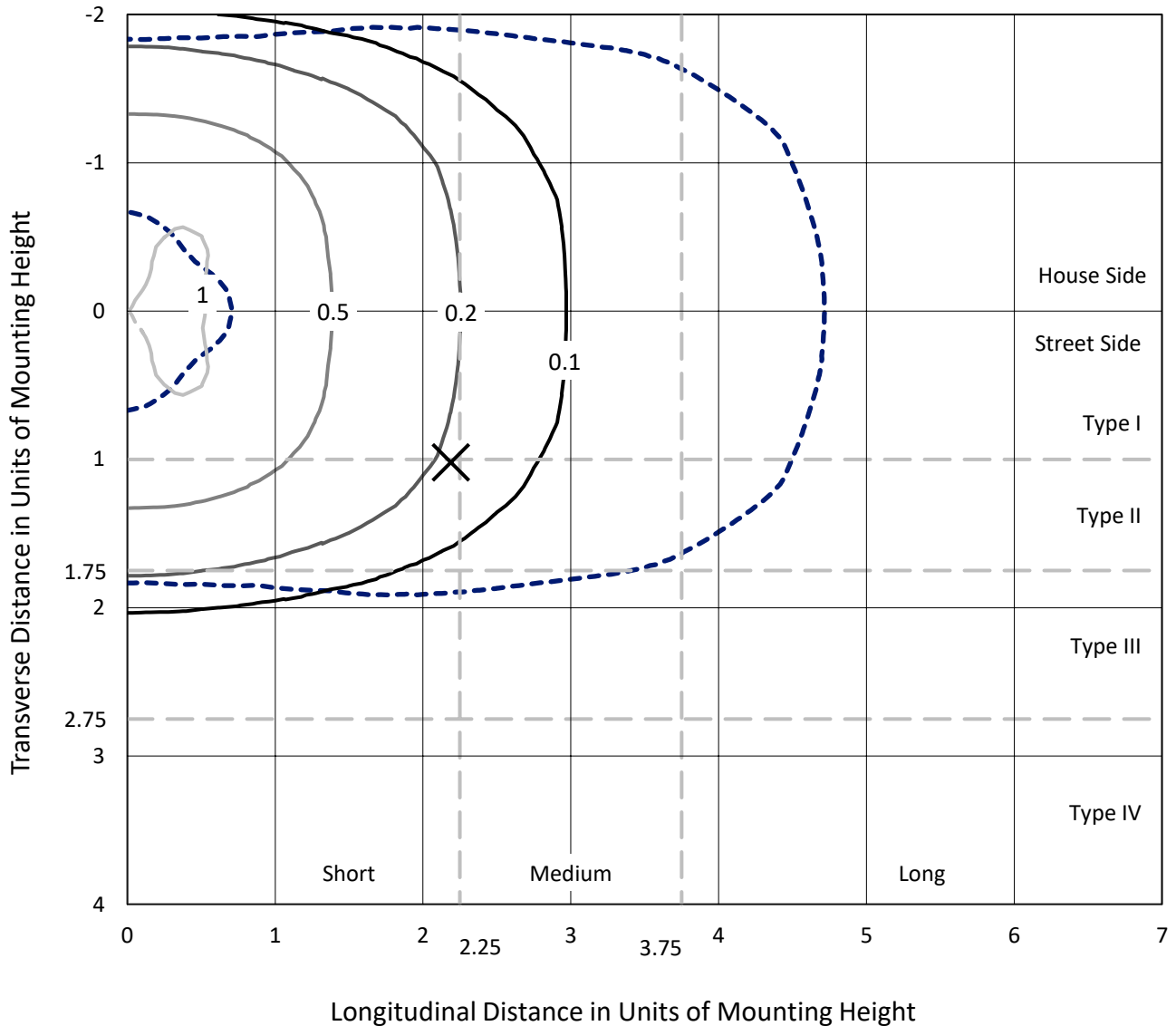
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

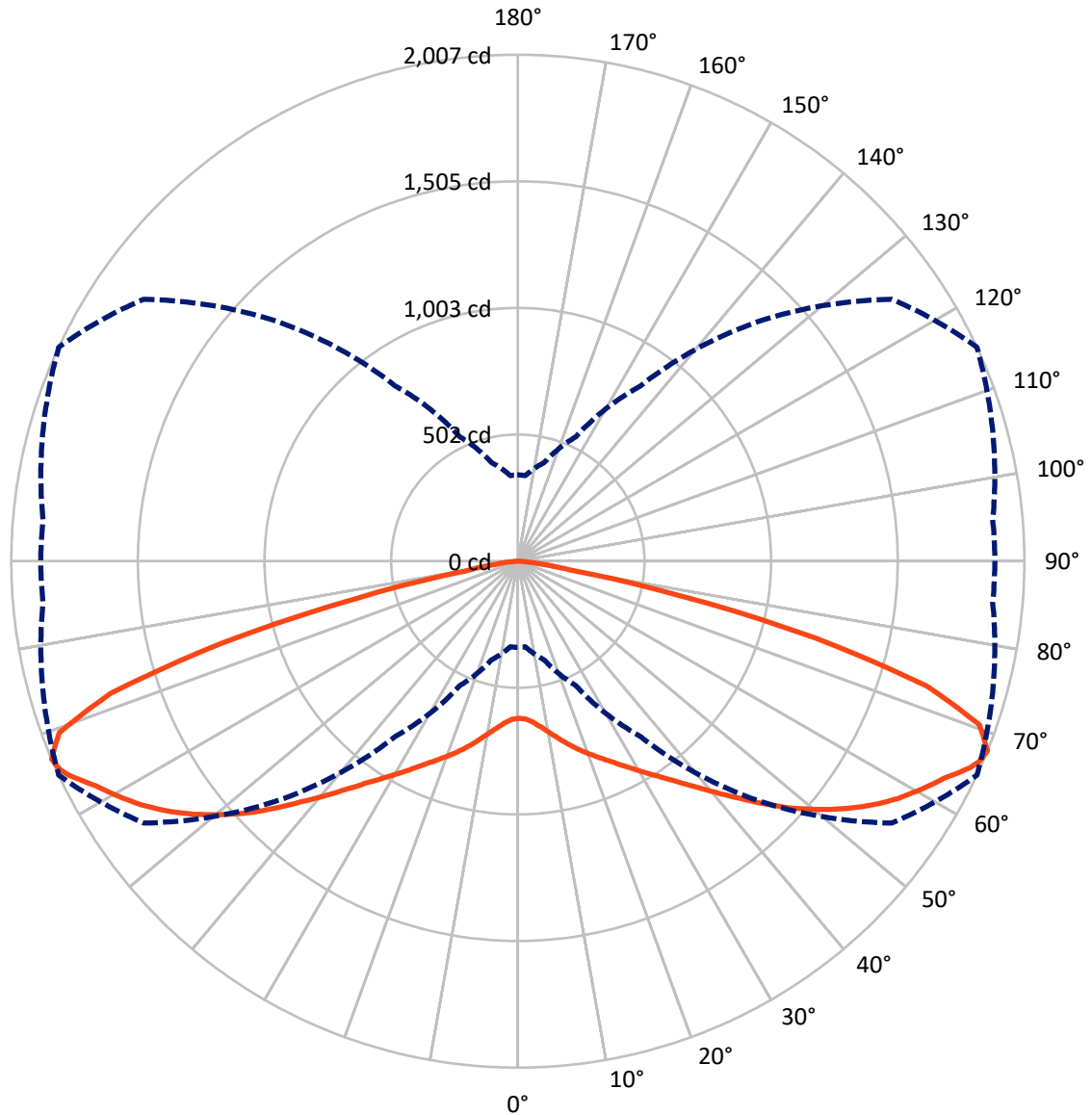
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2970.0	0.0	2970.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2970.0	0.0	2970.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5940.0	0.0	5940.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.4	1.0
10°-20°	205.4	3.5
20°-30°	401.7	6.8
30°-40°	683.3	11.5
40°-50°	1081.4	18.2
50°-60°	1434.0	24.1
60°-70°	1352.7	22.8
70°-80°	668.7	11.3
80°-90°	51.5	0.9
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°	5940.0	100.0
0°-180°	5940.0	100.0

**Coefficient of Utilization**



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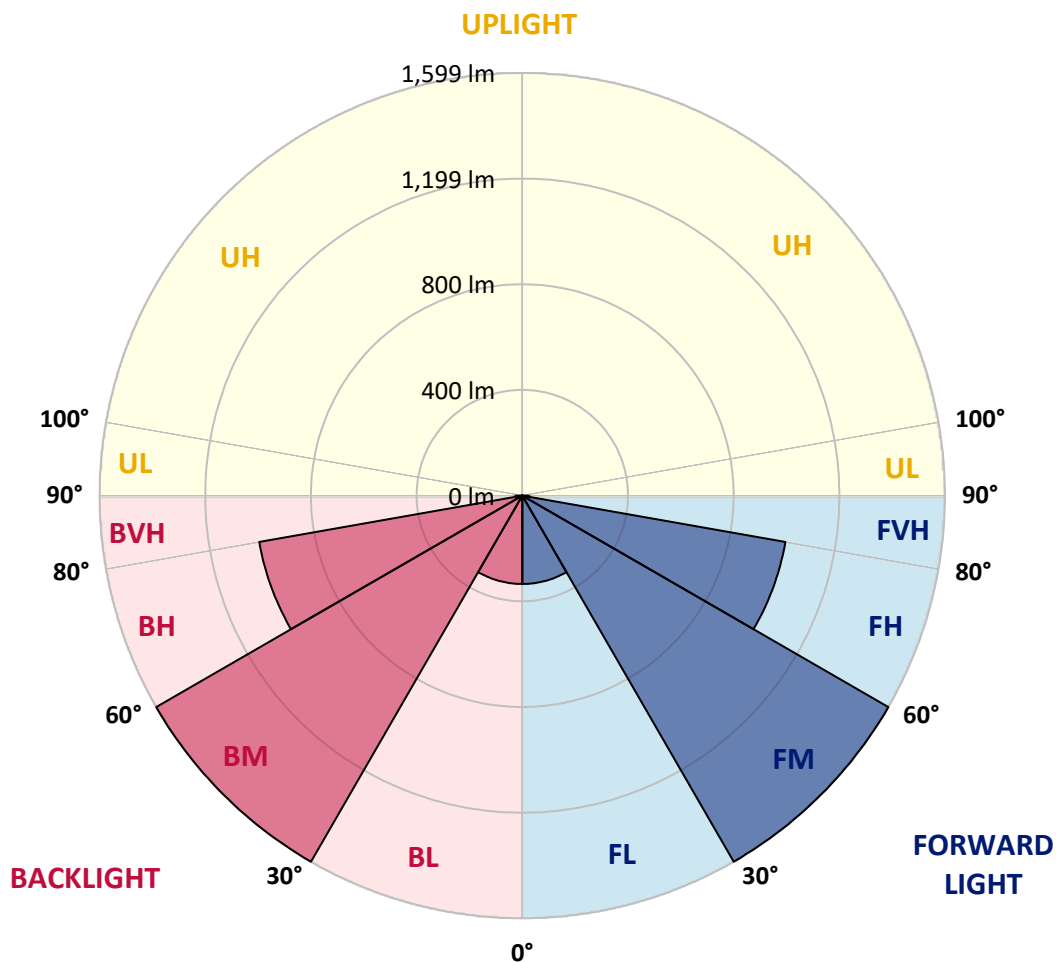
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	334.2	5.6			
FM (30°-60°)	1599.3	26.9			
FH (60°-80°)	1010.7	17.0			G1/1800
FVH (80°-90°)	25.8	0.4			G1/100
BL (0°-30°)	334.2	5.6	B1/500		
BM (30°-60°)	1599.3	26.9	B2/2500		
BH (60°-80°)	1010.7	17.0	B3/2500		G3/2500
BVH (80°-90°)	25.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.2
2.5°	619.0	619.6	620.3	621.2	622.5	624.4	625.7	626.6	629.2	629.5	629.2
5°	616.8	617.4	619.0	621.8	626.0	631.7	636.2	641.6	645.7	648.6	647.9
7.5°	616.4	617.7	620.3	626.3	634.3	644.1	654.3	663.5	671.5	677.9	676.9
10°	621.5	623.1	627.3	636.2	648.6	662.9	677.2	690.9	702.4	710.6	713.5
12.5°	630.1	631.4	639.0	652.4	670.2	688.0	704.3	721.1	737.0	751.1	751.1
15°	645.1	647.3	656.9	676.3	698.2	718.9	735.5	753.3	770.5	786.4	791.1
17.5°	665.8	668.9	683.3	708.1	736.1	755.2	770.8	785.4	800.4	815.7	817.9
20°	694.1	697.3	716.4	746.3	779.4	802.3	812.8	816.3	823.6	838.2	840.2
22.5°	732.6	735.8	757.1	790.8	827.7	852.6	857.0	848.8	846.8	858.3	859.6
25°	776.2	779.1	803.6	839.8	878.0	905.1	903.8	883.4	872.0	879.0	880.9
27.5°	825.2	829.3	854.2	891.7	933.1	957.0	953.1	923.5	899.0	897.8	898.4
30°	887.9	892.3	915.9	951.9	992.6	1014.6	1006.6	966.8	928.9	916.2	916.2
32.5°	954.1	965.2	989.1	1026.6	1058.5	1074.4	1062.3	1014.6	964.3	946.5	945.5
35°	1040.3	1046.4	1069.9	1106.5	1130.4	1142.8	1119.6	1068.3	1010.4	989.4	986.5
37.5°	1124.7	1129.8	1157.1	1192.1	1221.1	1220.5	1189.0	1132.3	1067.7	1044.2	1042.2
40°	1210.9	1216.3	1247.5	1279.7	1308.6	1306.1	1267.9	1204.5	1135.8	1109.4	1114.5
42.5°	1285.7	1291.7	1327.1	1372.9	1399.0	1398.4	1354.1	1282.8	1211.2	1187.7	1192.1
45°	1353.8	1359.2	1400.3	1452.8	1491.0	1495.7	1447.4	1371.9	1298.4	1268.2	1269.5
47.5°	1401.9	1412.0	1455.0	1515.1	1567.0	1583.9	1536.5	1462.6	1378.0	1346.5	1348.4
50°	1438.5	1444.8	1491.6	1560.0	1625.6	1660.6	1622.4	1546.7	1457.5	1424.1	1428.6
52.5°	1442.9	1450.5	1501.5	1580.4	1664.4	1717.6	1698.8	1628.8	1538.7	1504.3	1513.9
55°	1406.6	1411.1	1471.9	1567.7	1679.7	1759.9	1764.7	1705.1	1616.0	1589.9	1596.3
57.5°	1303.2	1314.7	1391.7	1508.1	1658.7	1782.5	1814.0	1774.5	1694.3	1668.5	1678.7
60°	1133.6	1145.0	1222.4	1370.0	1579.4	1772.0	1854.7	1835.9	1765.3	1744.6	1750.0
62.5°	888.2	887.3	983.0	1164.1	1421.9	1720.4	1884.9	1895.1	1835.3	1809.2	1817.5
65°	575.7	578.6	671.2	866.3	1184.2	1589.3	1891.6	1970.6	1904.0	1864.6	1870.6
66°	463.0	471.6	550.2	730.0	1062.9	1503.4	1871.6	1992.8	1925.0	1877.3	1880.2
67.5°	341.8	340.2	404.8	543.6	848.8	1340.1	1808.9	2006.8	1948.9	1888.8	1890.0
70°	195.1	194.8	217.7	298.5	499.0	943.6	1524.7	1939.7	1997.3	1930.1	1926.6
72.5°	142.6	141.6	144.8	164.8	243.5	476.4	1051.8	1695.3	1972.5	1923.5	1913.6
75°	119.7	119.0	118.4	120.9	136.5	215.8	558.2	1219.5	1711.5	1805.4	1795.2
77.5°	97.7	97.7	98.0	97.4	98.0	113.6	231.4	653.7	1042.2	1163.5	1191.8
80°	76.4	76.1	81.5	79.2	74.2	72.9	102.5	210.4	345.9	344.0	283.9
82.5°	56.3	52.5	62.1	60.5	54.7	46.5	59.8	89.7	115.5	75.1	55.7
85°	35.6	35.3	43.9	40.1	33.4	22.0	28.6	38.5	47.7	29.0	23.5
87.5°	6.4	6.0	14.0	10.2	10.2	6.4	8.0	10.5	15.6	10.8	8.0
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)