

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: P450683

Luminaire Tested: **GALN-SA1C-730-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450683  
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-SA1C-730-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6795 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

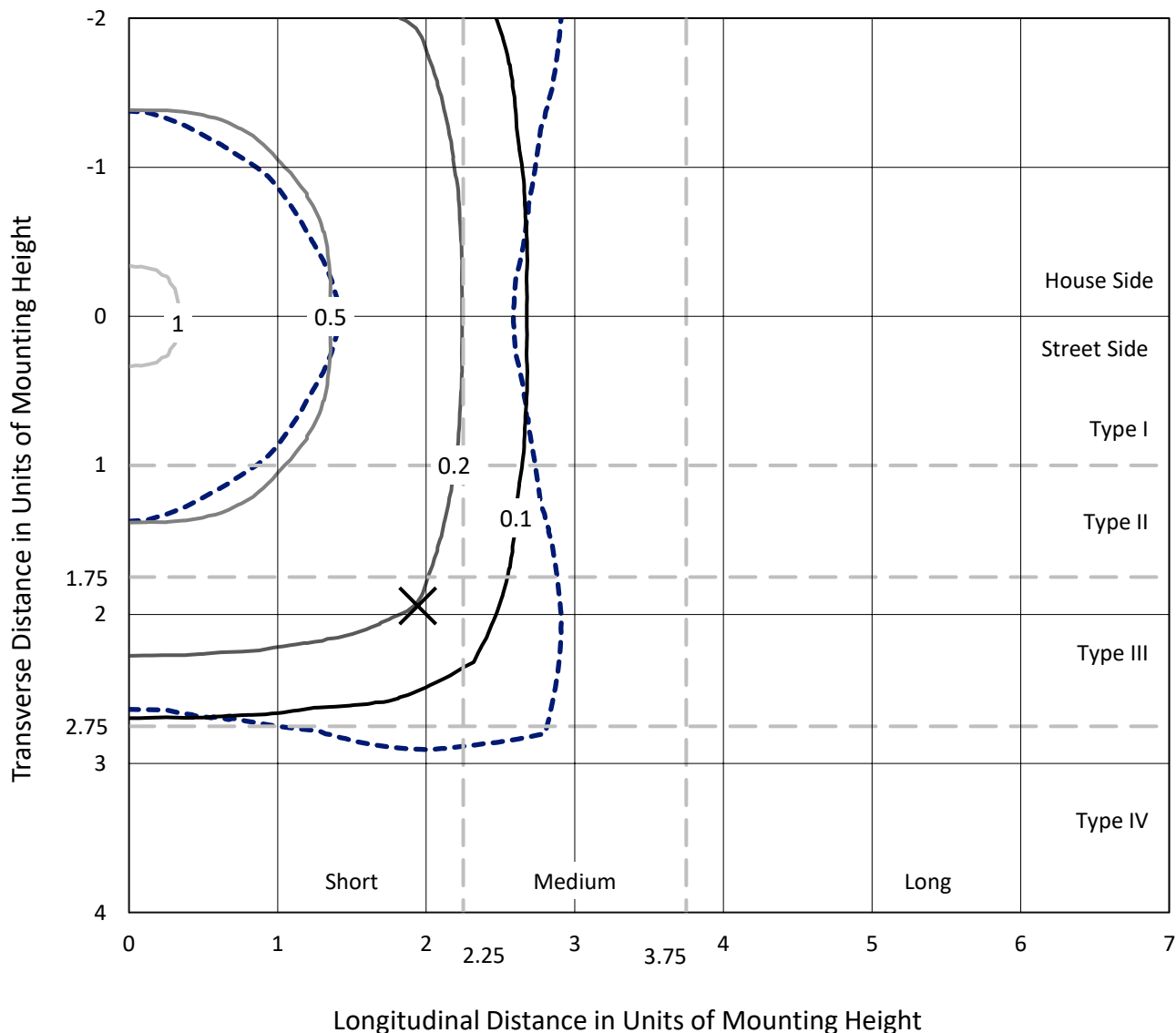
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

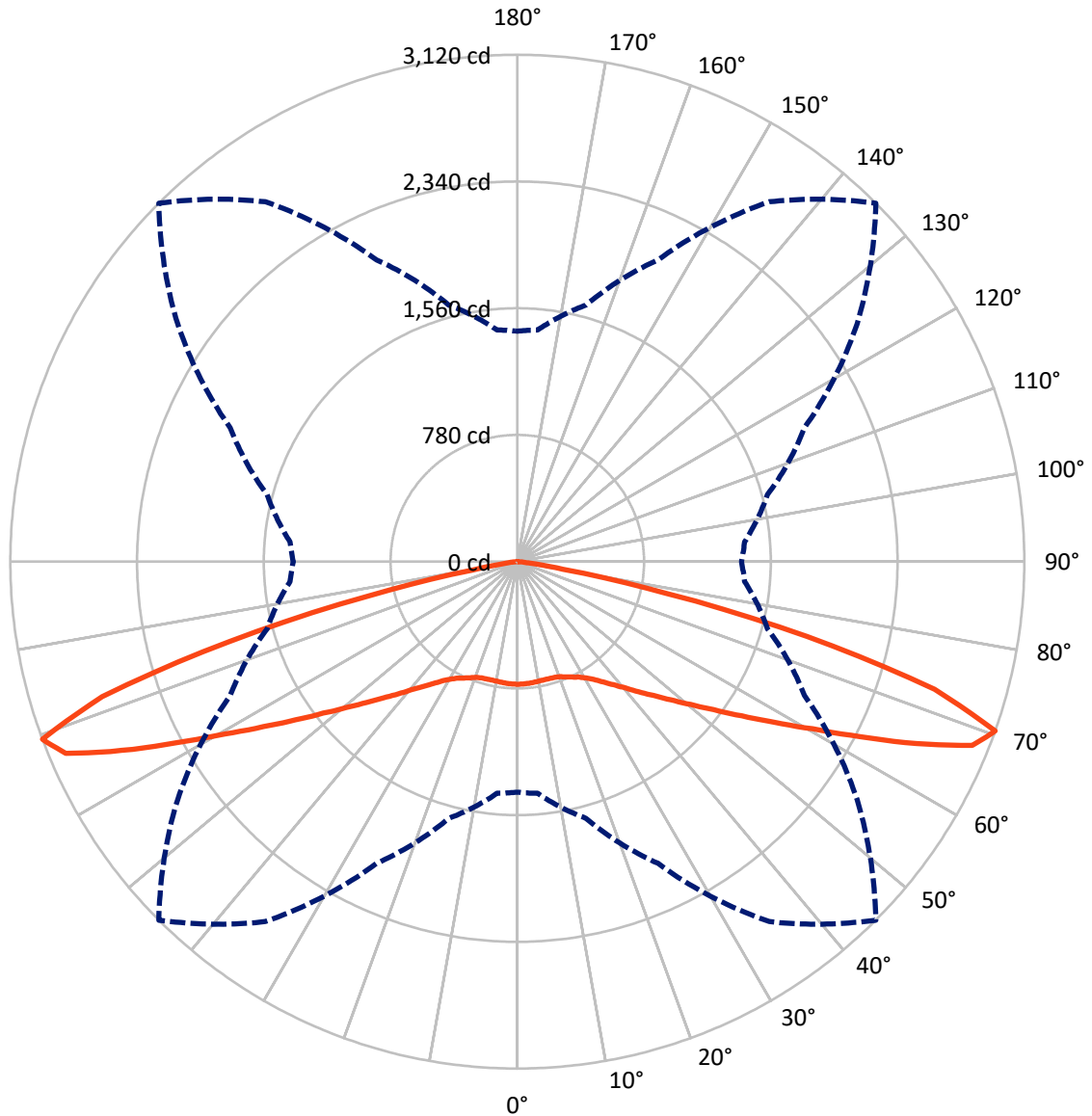
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	3397.5	0.0	3397.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3397.5	0.0	3397.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6795.0	0.0	6795.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.6	1.1
10°-20°	210.0	3.1
20°-30°	359.1	5.3
30°-40°	570.0	8.4
40°-50°	919.5	13.5
50°-60°	1496.1	22.0
60°-70°	2168.8	31.9
70°-80°	962.0	14.2
80°-90°	37.9	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°	6795.0	100.0
0°-180°	6795.0	100.0

**Coefficient of Utilization**



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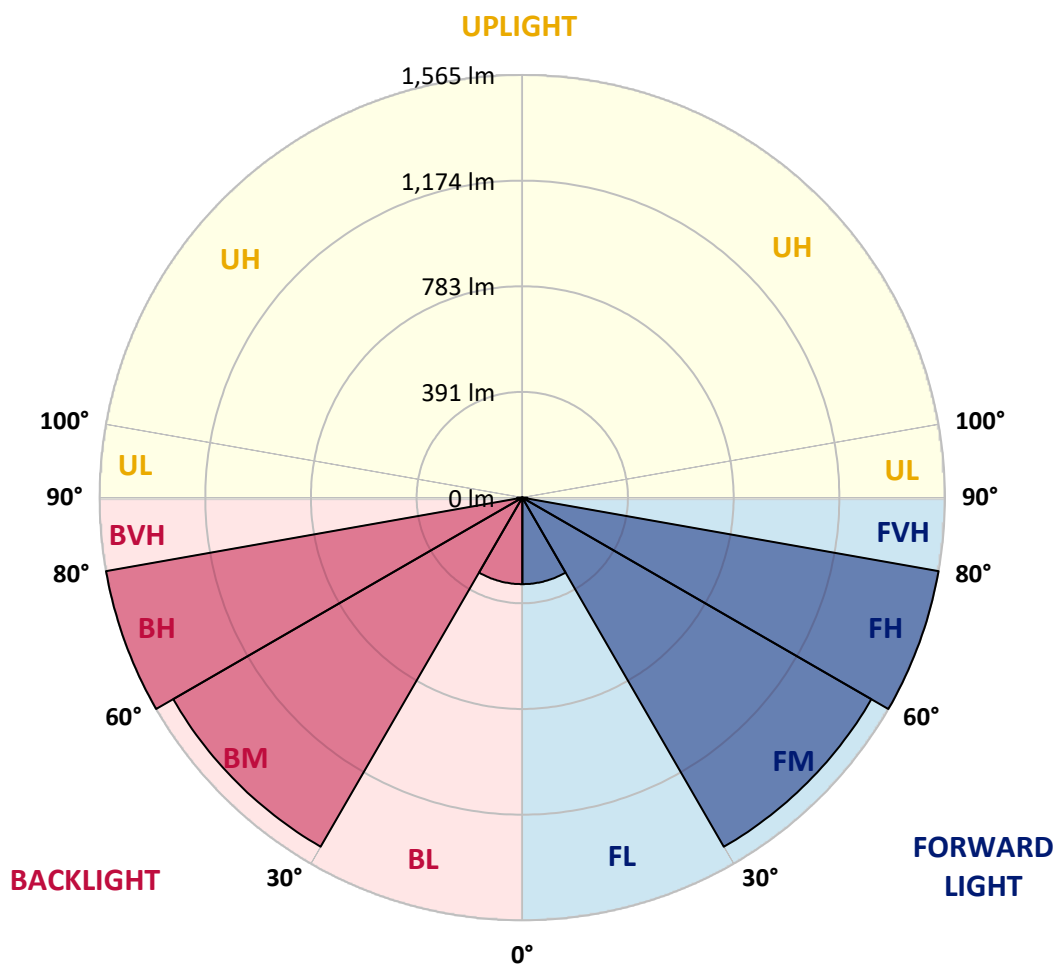
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	320.3	4.7			
FM (30°-60°)	1492.8	22.0			
FH (60°-80°)	1565.4	23.0			G1/1800
FVH (80°-90°)	19.0	0.3			G1/100
BL (0°-30°)	320.3	4.7	B1/500		
BM (30°-60°)	1492.8	22.0	B2/2500		
BH (60°-80°)	1565.4	23.0	B3/2500		G1/1800
BVH (80°-90°)	19.0	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6
2.5°	754.6	755.3	754.2	753.5	753.1	753.1	752.8	753.1	755.3	755.6	754.6
5°	752.4	753.1	752.8	752.0	751.7	751.7	751.3	751.0	752.8	753.5	753.1
7.5°	749.5	749.9	749.5	749.2	749.5	749.2	748.1	747.4	748.8	748.8	748.5
10°	744.5	745.2	744.9	745.2	746.0	746.0	744.5	743.1	743.5	742.7	742.7
12.5°	738.4	739.5	739.9	741.3	743.1	745.2	742.0	738.8	738.1	737.7	737.4
15°	734.5	735.6	737.0	738.4	741.7	746.3	741.7	736.6	735.2	733.8	733.1
17.5°	733.4	734.9	737.0	739.2	743.5	748.1	744.2	739.2	735.6	733.4	732.7
20°	736.3	737.4	740.6	744.5	750.6	755.3	751.3	746.0	740.6	737.4	736.3
22.5°	742.0	743.8	747.7	754.9	763.5	770.3	764.9	756.0	747.4	743.1	741.7
25°	754.6	756.0	760.6	770.3	780.3	786.8	781.1	770.7	758.9	753.1	751.3
27.5°	773.5	775.7	780.7	792.2	800.4	804.0	800.0	792.9	784.3	778.2	776.8
30°	800.4	802.9	810.4	822.6	828.0	830.1	828.3	823.7	817.6	811.1	809.7
32.5°	836.6	838.0	846.6	858.0	863.1	863.8	861.6	859.5	849.5	838.7	838.0
35°	877.0	879.5	889.9	903.5	908.2	908.5	904.2	901.0	889.2	880.6	880.6
37.5°	930.7	931.8	941.8	957.2	962.3	960.8	958.7	955.8	943.3	932.2	932.5
40°	993.8	995.9	1004.5	1022.4	1022.4	1020.6	1022.1	1019.9	1007.4	996.6	997.0
42.5°	1068.6	1069.7	1080.1	1099.1	1097.6	1094.0	1095.5	1092.6	1084.7	1072.6	1068.3
45°	1148.5	1152.8	1170.7	1188.9	1186.1	1174.6	1180.4	1179.6	1172.5	1154.2	1155.3
47.5°	1244.8	1252.0	1269.2	1291.0	1287.8	1269.9	1276.3	1280.6	1270.6	1250.5	1247.0
50°	1353.3	1358.0	1383.4	1403.8	1401.0	1382.0	1396.7	1397.4	1372.3	1344.0	1344.0
52.5°	1469.0	1473.7	1508.0	1539.9	1541.7	1514.1	1525.9	1525.2	1484.4	1447.2	1440.0
55°	1598.6	1600.8	1645.2	1692.1	1702.1	1675.3	1676.7	1662.4	1609.4	1566.0	1562.1
57.5°	1732.6	1740.4	1789.5	1850.4	1880.1	1863.6	1856.1	1817.8	1766.6	1716.8	1714.3
60°	1880.8	1881.2	1944.9	2016.9	2077.1	2088.2	2057.4	2006.2	1939.9	1874.0	1871.2
62.5°	1983.6	1999.0	2079.6	2201.3	2309.1	2371.5	2290.2	2182.7	2052.4	1946.0	1935.3
65°	2004.7	2015.1	2138.0	2344.2	2564.5	2698.8	2510.8	2282.3	2059.9	1918.1	1910.9
67.5°	1833.9	1845.0	2010.5	2327.0	2743.5	3018.9	2654.0	2234.3	1932.4	1756.9	1743.0
70°	1418.5	1431.0	1635.5	2048.4	2703.8	3119.6	2551.9	1948.9	1593.6	1404.2	1378.8
72.5°	754.2	800.4	975.2	1406.0	2194.5	2685.9	2092.5	1422.1	1027.8	840.1	806.5
75°	275.4	281.1	378.5	623.5	1276.7	1841.8	1325.7	678.3	390.0	301.2	285.8
77.5°	113.9	113.5	124.6	188.4	463.8	943.3	517.5	199.1	124.3	115.0	113.5
80°	67.3	67.3	74.1	78.4	122.1	284.7	136.4	88.8	74.5	68.0	69.1
82.5°	30.1	31.9	46.9	49.4	59.1	78.1	65.9	56.6	48.7	33.7	30.4
85°	16.5	14.3	24.7	25.8	28.3	29.0	31.2	30.8	28.3	16.5	16.8
87.5°	3.2	3.9	7.2	5.4	6.1	5.4	7.2	10.0	10.4	5.7	4.7
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)