

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: P452106

Luminaire Tested: **GALN-SA3A-740-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452106  
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-SA3A-740-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14288 lumens  
Efficiency: N/A  
Efficacy: 153.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 93  
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

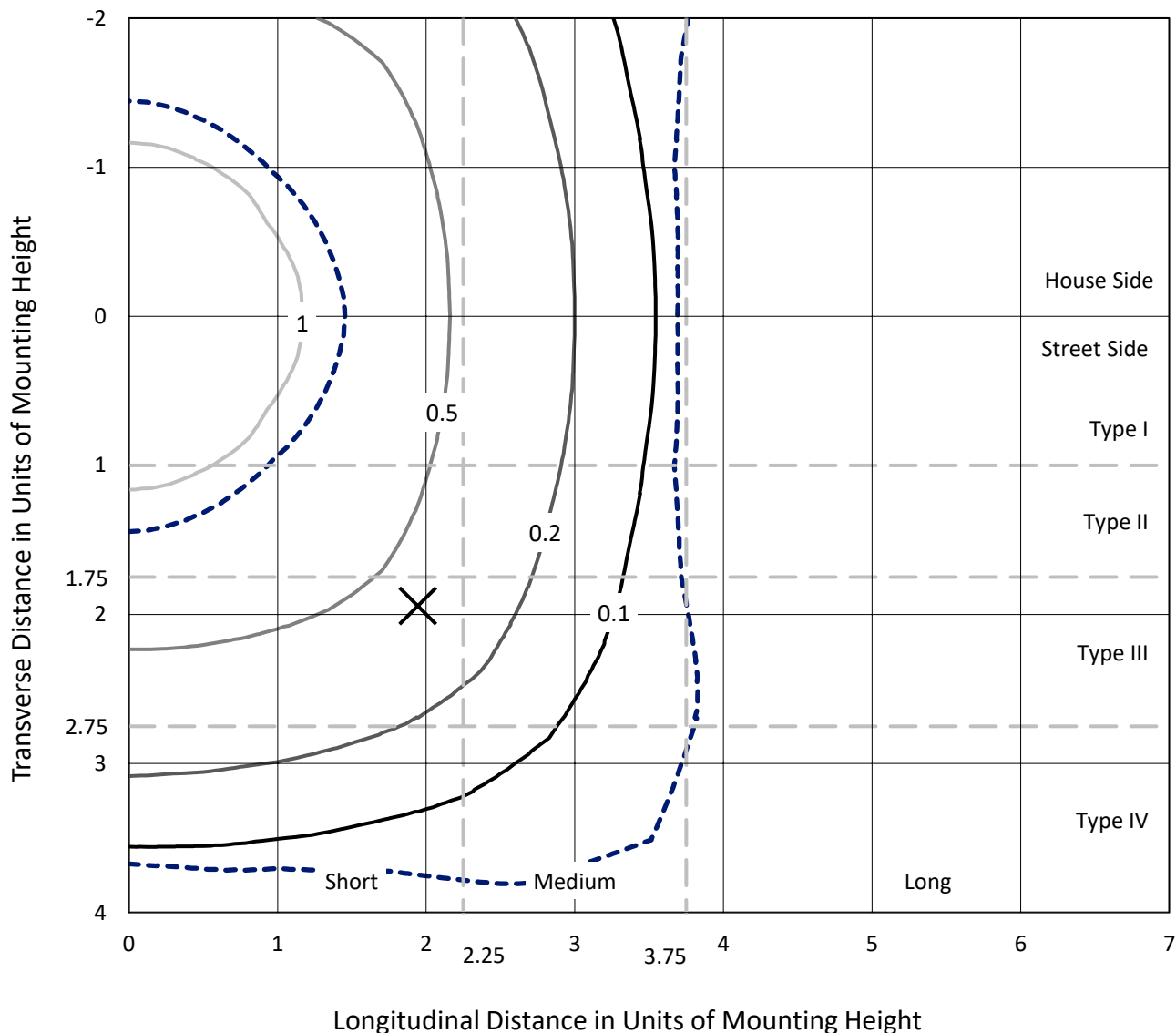


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### Iso-Footcandle Lines of Horizontal Illumination

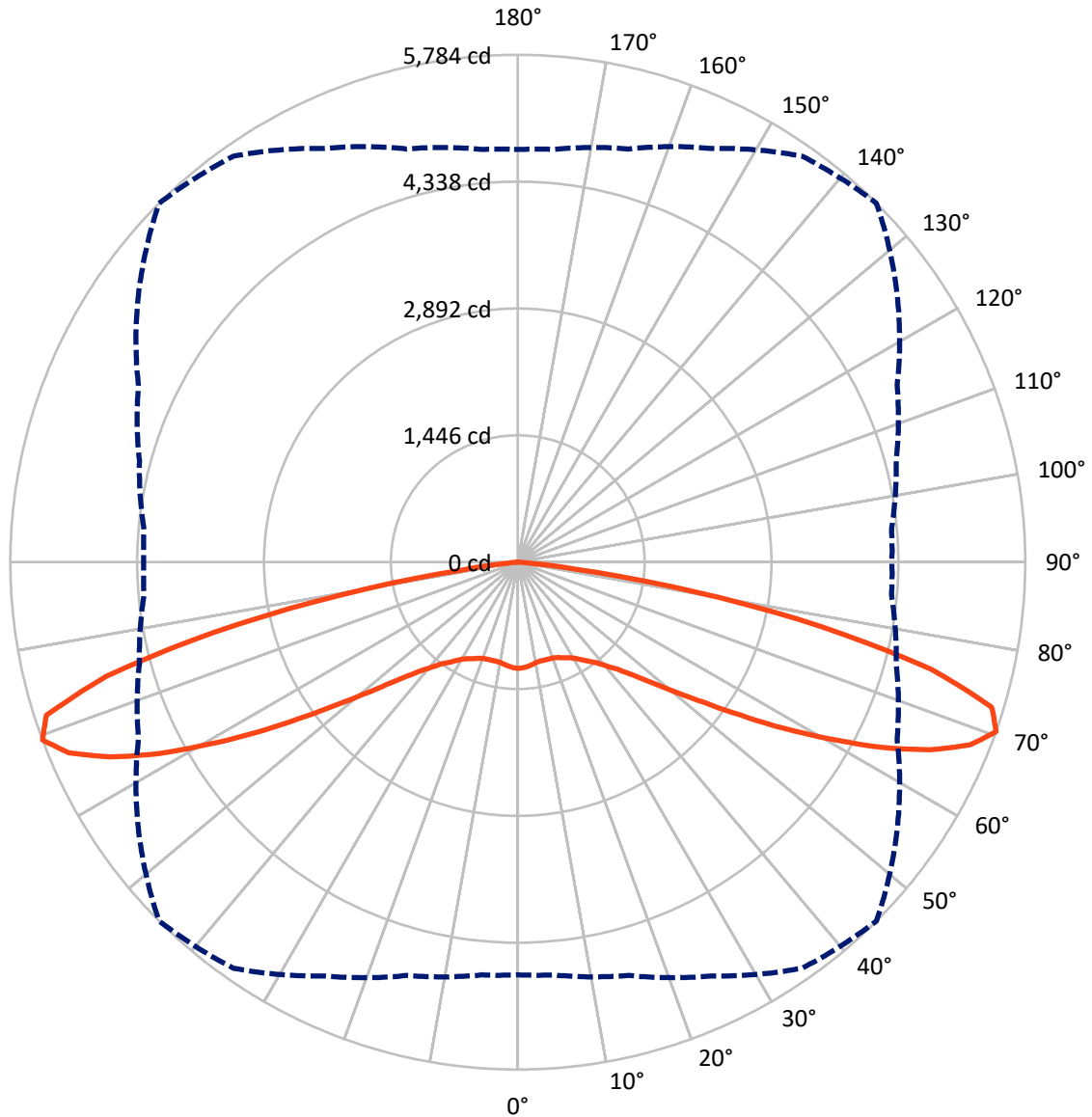
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	7144.0	0.0	7144.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7144.0	0.0	7144.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14288.0	0.0	14288.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.1	0.8
10°-20°	331.2	2.3
20°-30°	564.3	3.9
30°-40°	874.6	6.1
40°-50°	1472.1	10.3
50°-60°	2678.3	18.7
60°-70°	4534.4	31.7
70°-80°	3509.8	24.6
80°-90°	210.3	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°	14288.0	100.0
0°-180°	14288.0	100.0



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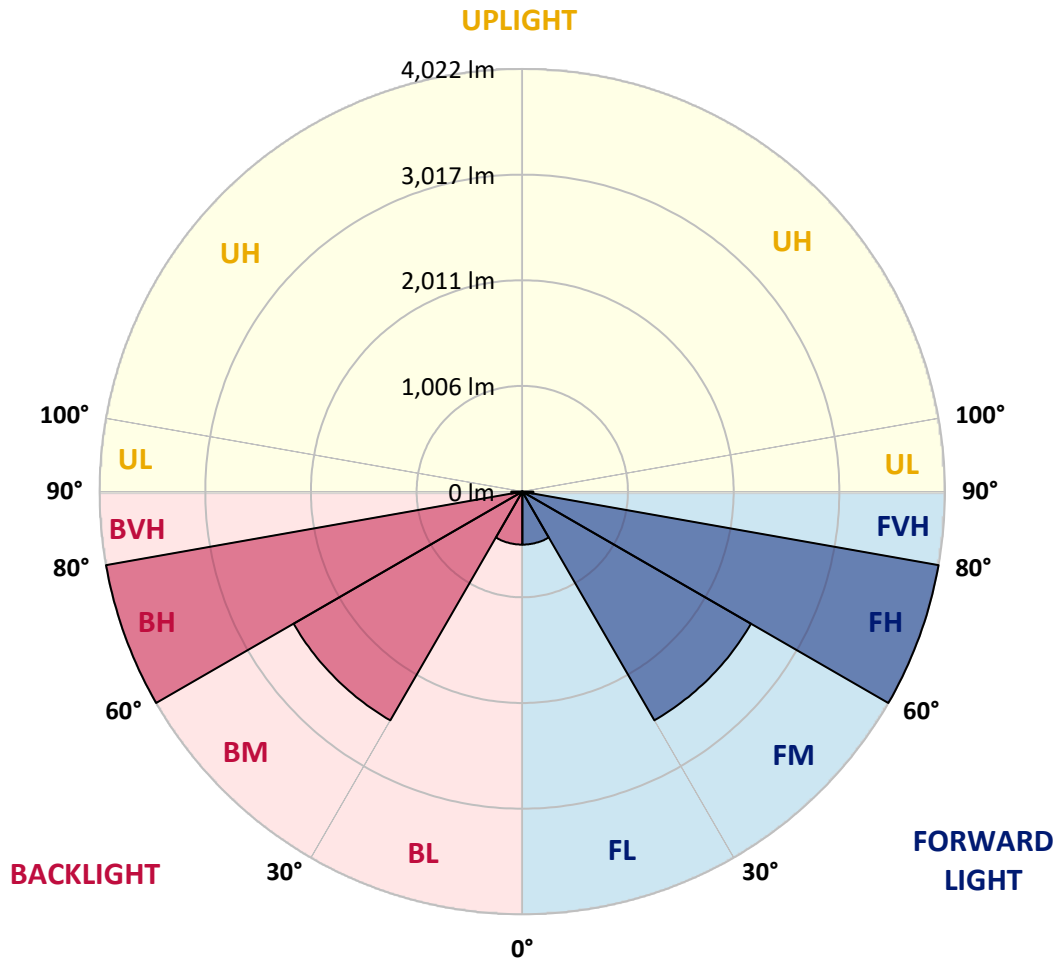
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	504.3	3.5			
FM	(30°-60°)	2512.5	17.6			
FH	(60°-80°)	4022.1	28.2			G2/5000
FVH	(80°-90°)	105.1	0.7			G2/225
BL	(0°-30°)	504.3	3.5	B2/1000		
BM	(30°-60°)	2512.5	17.6	B3/5000		
BH	(60°-80°)	4022.1	28.2	B4/5000		G2/5000
BVH	(80°-90°)	105.1	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°	1209.7	1209.7	1209.7	1209.7	1209.7	1209.7	1209.7	1209.7	1209.7	1209.7	1209.7
2.5°	1206.6	1207.4	1207.4	1205.9	1205.1	1205.1	1204.4	1204.4	1206.6	1207.4	1208.1
5°	1196.1	1196.1	1196.1	1195.3	1193.8	1193.8	1192.3	1192.3	1193.1	1195.3	1193.8
7.5°	1181.7	1183.2	1183.2	1180.2	1178.0	1178.0	1177.2	1178.0	1178.7	1181.0	1180.2
10°	1177.2	1178.0	1174.2	1168.9	1165.1	1162.9	1163.6	1165.1	1168.9	1170.4	1171.2
12.5°	1180.2	1180.2	1173.4	1165.9	1159.1	1156.1	1155.3	1160.6	1167.4	1171.9	1173.4
15°	1184.0	1182.5	1174.2	1164.4	1157.6	1156.8	1156.1	1159.8	1169.7	1178.7	1179.5
17.5°	1186.3	1185.5	1174.9	1162.9	1159.1	1159.1	1158.3	1161.4	1171.9	1183.2	1184.0
20°	1193.8	1191.5	1179.5	1166.6	1163.6	1165.1	1162.9	1166.6	1178.0	1191.5	1194.6
22.5°	1208.9	1206.6	1194.6	1181.7	1180.2	1180.2	1179.5	1183.2	1195.3	1209.7	1211.9
25°	1227.0	1224.7	1213.4	1204.4	1205.9	1208.9	1207.4	1208.1	1218.0	1230.0	1233.8
27.5°	1251.2	1247.4	1237.6	1230.0	1234.6	1234.6	1234.6	1233.8	1239.8	1251.2	1254.9
30°	1280.6	1279.1	1268.5	1267.8	1271.5	1267.8	1267.8	1268.5	1269.3	1279.8	1283.6
32.5°	1319.1	1316.1	1310.8	1309.3	1319.8	1322.8	1312.3	1302.5	1307.8	1318.3	1320.6
35°	1382.5	1377.9	1370.4	1362.1	1370.4	1384.7	1362.1	1354.5	1368.1	1382.5	1384.0
37.5°	1468.5	1466.2	1454.2	1439.1	1438.3	1453.4	1430.0	1429.2	1454.9	1472.3	1474.5
40°	1576.4	1578.7	1563.6	1549.2	1541.7	1553.8	1535.6	1542.4	1567.3	1587.0	1585.5
42.5°	1728.1	1719.8	1696.4	1682.8	1674.5	1670.0	1665.4	1676.0	1703.9	1725.1	1741.7
45°	1905.4	1902.4	1873.0	1856.4	1838.3	1831.5	1830.0	1848.8	1882.8	1908.4	1910.7
47.5°	2106.1	2099.3	2080.5	2063.1	2056.3	2048.0	2040.5	2054.8	2088.8	2106.9	2112.2
50°	2312.9	2314.4	2314.4	2311.4	2318.2	2319.7	2299.3	2304.6	2323.5	2322.0	2320.5
52.5°	2549.1	2557.4	2596.6	2600.4	2632.9	2654.7	2617.8	2595.9	2589.1	2548.3	2551.4
55°	2826.8	2834.3	2893.2	2952.1	3039.6	3076.6	2998.9	2930.9	2882.6	2820.8	2823.8
57.5°	3173.2	3176.9	3232.8	3346.0	3484.8	3571.6	3435.0	3300.7	3202.6	3143.7	3120.3
60°	3546.0	3549.7	3631.2	3769.3	3985.1	4090.8	3921.8	3702.2	3578.4	3488.6	3494.6
62.5°	3993.4	4008.5	4081.7	4271.9	4533.8	4652.2	4428.1	4134.6	3967.0	3855.3	3859.9
65°	4472.6	4498.3	4578.3	4787.3	5028.8	5156.3	4881.6	4542.8	4334.5	4197.9	4212.3
67.5°	4783.5	4806.2	4921.6	5152.5	5453.6	5559.3	5204.6	4809.9	4549.6	4386.6	4356.4
70°	4704.3	4723.2	4877.1	5204.6	5650.6	5784.2	5281.6	4770.7	4464.3	4276.4	4264.4
72.5°	4152.7	4113.4	4338.3	4808.4	5425.7	5649.8	5039.3	4357.2	3971.6	3778.4	3755.7
75°	2752.1	2837.4	3169.4	3723.3	4590.3	4868.0	4301.3	3498.4	3013.2	2852.5	2827.6
77.5°	919.9	985.5	1280.6	2110.7	3129.4	3546.7	3133.9	2288.0	1618.7	1304.0	1310.0
80°	243.7	240.7	311.7	580.3	1352.3	2054.1	1574.1	775.0	424.1	307.1	291.3
82.5°	87.5	98.1	126.0	160.7	358.4	638.4	450.5	217.3	159.2	117.7	113.9
85°	38.5	37.7	54.3	64.1	89.8	119.2	105.6	92.1	80.7	53.6	49.8
87.5°	8.3	8.3	12.8	9.8	15.8	15.8	19.6	23.4	24.1	15.8	12.8
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)