

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: P451379

Luminaire Tested: **GALN-SA2B-730-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451379  
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-SA2B-730-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10930 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

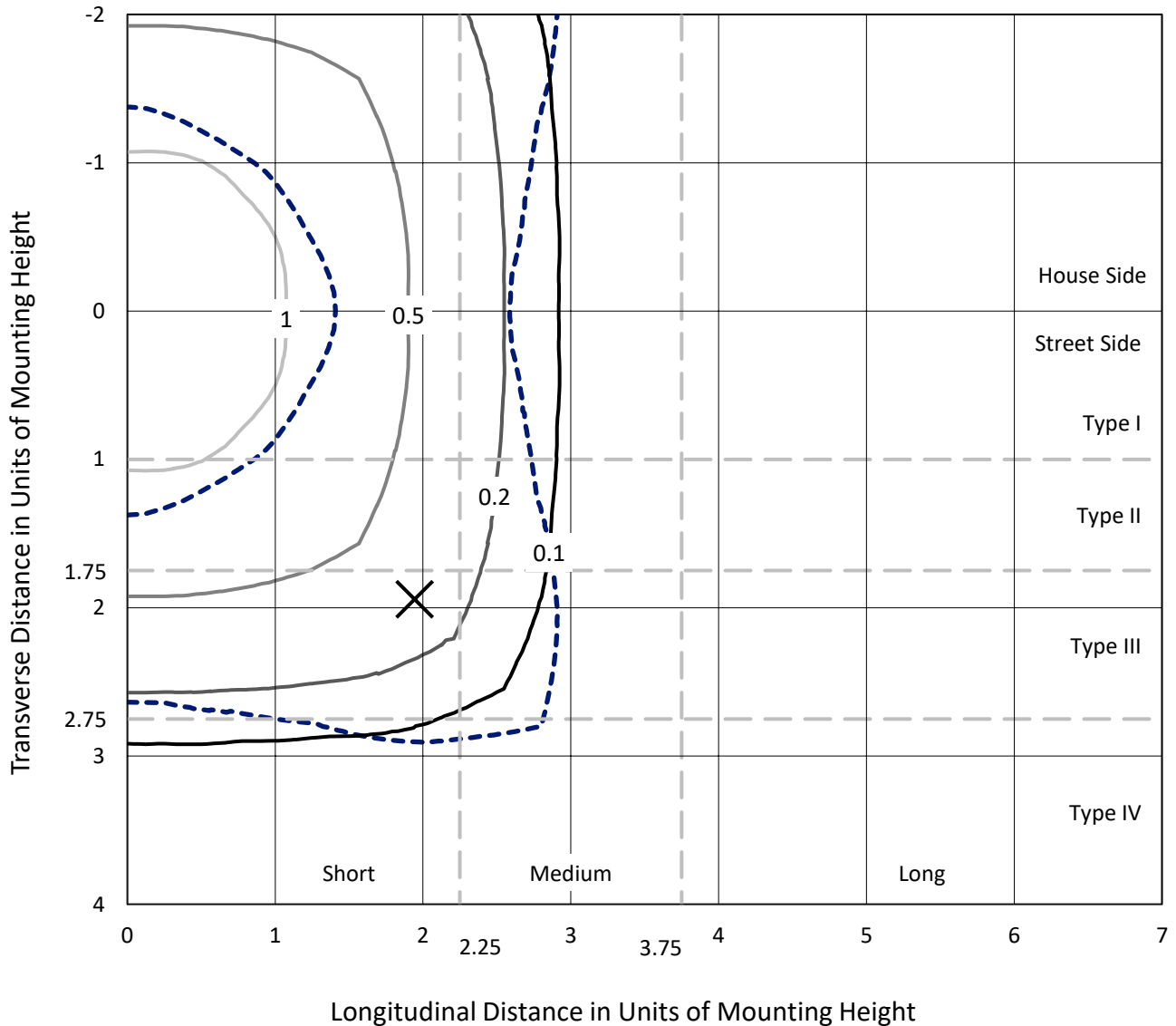
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

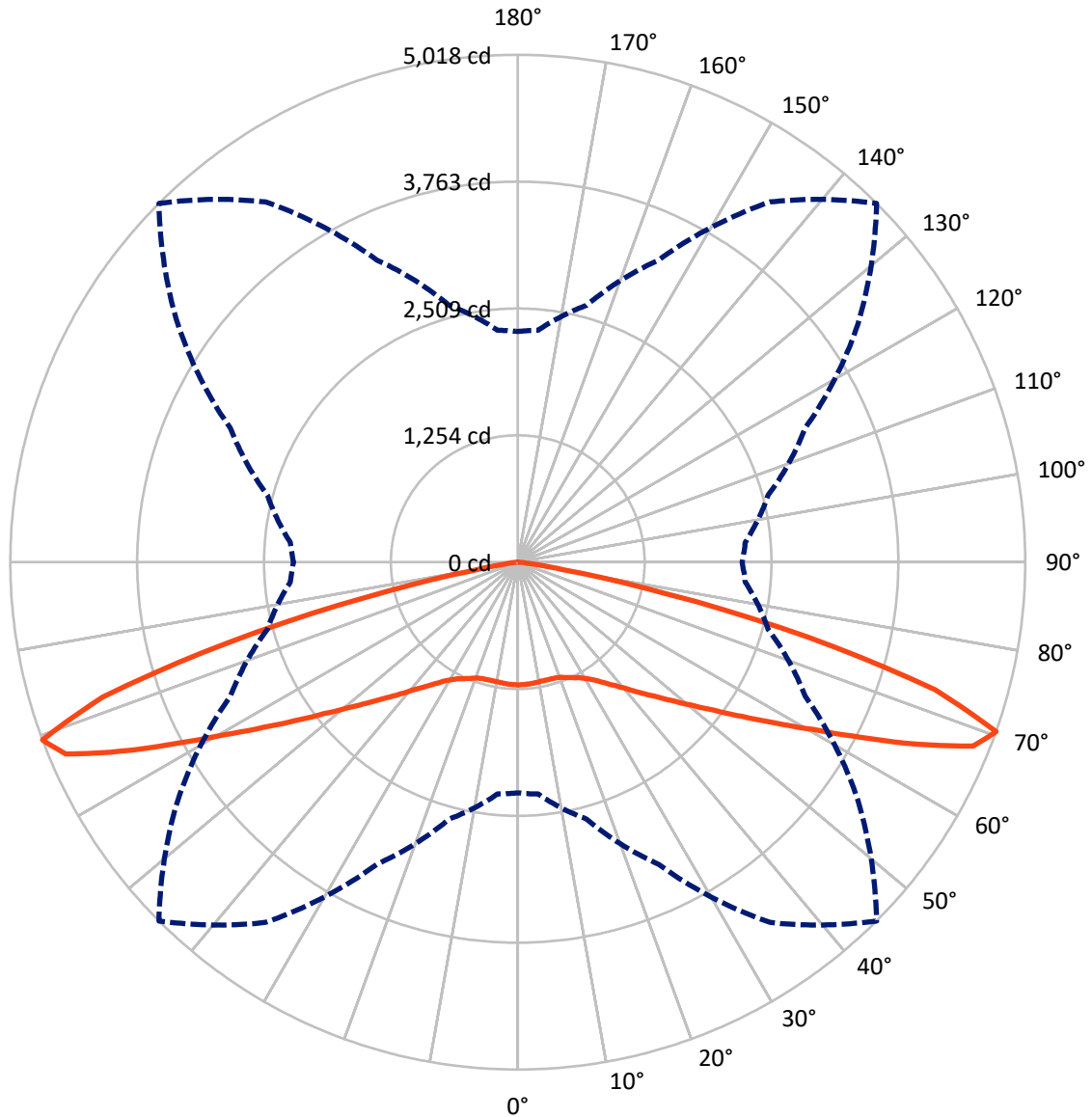
× Max cd  
 - - - 1/2 Max cd



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	5465.0	0.0	5465.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5465.0	0.0	5465.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10930.0	0.0	10930.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.1	1.1
10°-20°	337.7	3.1
20°-30°	577.6	5.3
30°-40°	916.8	8.4
40°-50°	1479.1	13.5
50°-60°	2406.5	22.0
60°-70°	3488.6	31.9
70°-80°	1547.4	14.2
80°-90°	61.0	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°	10930.0	100.0
0°-180°	10930.0	100.0

**Coefficient of Utilization**



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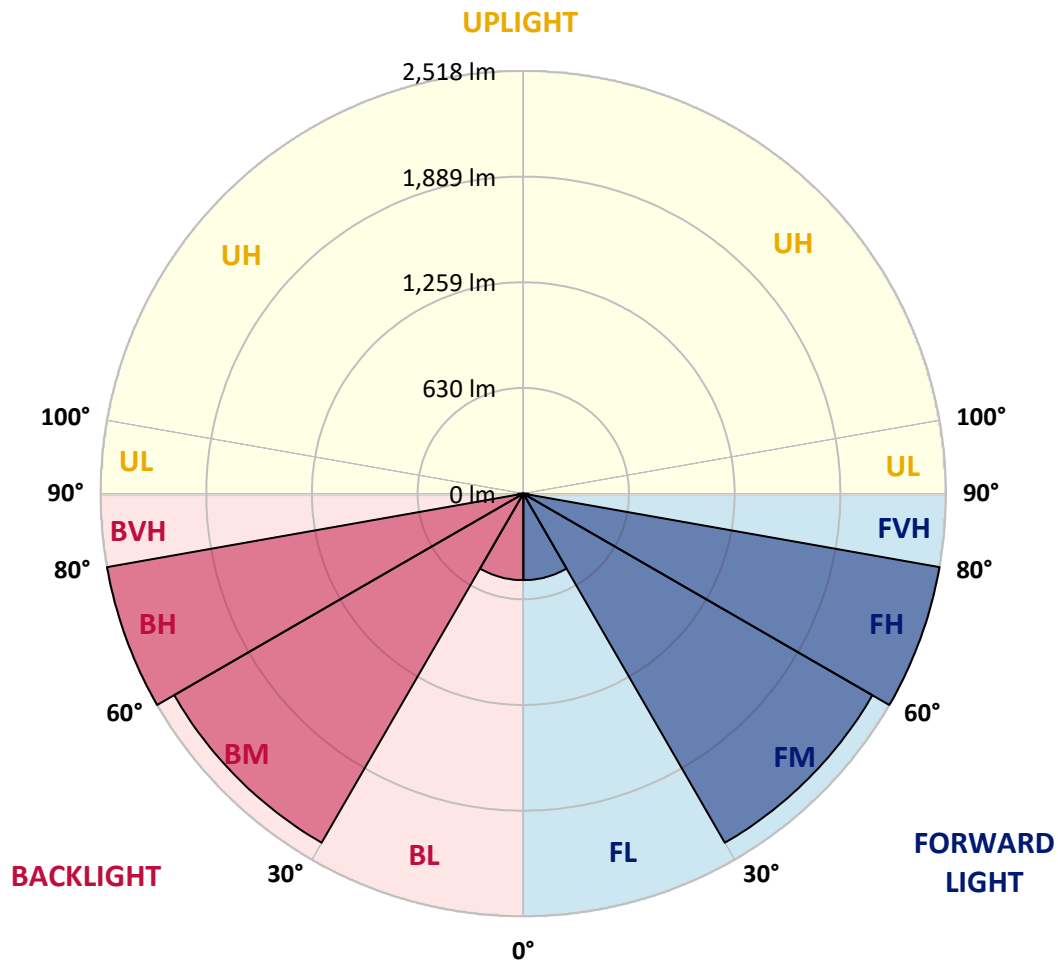
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	515.2	4.7			
FM (30°-60°)	2401.2	22.0			
FH (60°-80°)	2518.0	23.0			G2/5000
FVH (80°-90°)	30.5	0.3			G1/100
BL (0°-30°)	515.2	4.7	B2/1000		
BM (30°-60°)	2401.2	22.0	B2/2500		
BH (60°-80°)	2518.0	23.0	B4/5000		G2/5000
BVH (80°-90°)	30.5	0.3			G1/100
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°	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7	1213.7
2.5°	1213.7	1214.9	1213.1	1212.0	1211.4	1211.4	1210.8	1211.4	1214.9	1215.5	1213.7
5°	1210.3	1211.4	1210.8	1209.7	1209.1	1209.1	1208.5	1208.0	1210.8	1212.0	1211.4
7.5°	1205.7	1206.2	1205.7	1205.1	1205.7	1205.1	1203.4	1202.2	1204.5	1204.5	1203.9
10°	1197.6	1198.7	1198.2	1198.7	1199.9	1199.9	1197.6	1195.3	1195.9	1194.7	1194.7
12.5°	1187.8	1189.5	1190.1	1192.4	1195.3	1198.7	1193.6	1188.4	1187.2	1186.7	1186.1
15°	1181.5	1183.2	1185.5	1187.8	1193.0	1200.5	1193.0	1184.9	1182.6	1180.3	1179.2
17.5°	1179.7	1182.0	1185.5	1189.0	1195.9	1203.4	1197.0	1189.0	1183.2	1179.7	1178.6
20°	1184.3	1186.1	1191.3	1197.6	1207.4	1214.9	1208.5	1199.9	1191.3	1186.1	1184.3
22.5°	1193.6	1196.4	1202.8	1214.3	1228.1	1239.1	1230.4	1216.0	1202.2	1195.3	1193.0
25°	1213.7	1216.0	1223.5	1239.1	1255.2	1265.6	1256.4	1239.6	1220.6	1211.4	1208.5
27.5°	1244.3	1247.7	1255.8	1274.2	1287.5	1293.2	1286.9	1275.4	1261.5	1251.7	1249.4
30°	1287.5	1291.5	1303.6	1323.2	1331.8	1335.3	1332.4	1324.9	1315.1	1304.7	1302.4
32.5°	1345.6	1347.9	1361.8	1380.2	1388.3	1389.4	1386.0	1382.5	1366.4	1349.1	1347.9
35°	1410.7	1414.8	1431.5	1453.4	1460.8	1461.4	1454.5	1449.3	1430.3	1416.5	1416.5
37.5°	1497.1	1498.9	1515.0	1539.8	1547.8	1545.5	1542.1	1537.5	1517.3	1499.4	1500.0
40°	1598.5	1602.0	1615.8	1644.6	1644.6	1641.7	1644.0	1640.6	1620.4	1603.1	1603.7
42.5°	1718.9	1720.6	1737.3	1767.9	1765.6	1759.8	1762.1	1757.5	1744.8	1725.3	1718.3
45°	1847.4	1854.3	1883.1	1912.5	1907.9	1889.4	1898.6	1897.5	1886.0	1856.6	1858.3
47.5°	2002.3	2013.9	2041.5	2076.6	2071.5	2042.7	2053.0	2059.9	2043.8	2011.5	2005.8
50°	2176.9	2184.4	2225.3	2258.1	2253.5	2223.0	2246.6	2247.7	2207.4	2161.9	2161.9
52.5°	2362.9	2370.4	2425.7	2477.0	2479.9	2435.5	2454.5	2453.4	2387.7	2327.8	2316.3
55°	2571.5	2574.9	2646.3	2721.8	2737.9	2694.7	2697.0	2674.0	2588.7	2519.0	2512.7
57.5°	2786.9	2799.6	2878.5	2976.4	3024.2	2997.7	2985.6	2924.0	2841.6	2761.6	2757.5
60°	3025.4	3026.0	3128.5	3244.3	3341.1	3358.9	3309.4	3227.0	3120.4	3014.4	3009.8
62.5°	3190.7	3215.5	3345.1	3540.9	3714.3	3814.6	3683.8	3511.0	3301.3	3130.2	3112.9
65°	3224.7	3241.4	3439.0	3770.8	4125.1	4341.1	4038.6	3671.1	3313.4	3085.3	3073.8
67.5°	2949.9	2967.8	3233.9	3743.1	4413.1	4856.1	4269.1	3593.9	3108.3	2826.1	2803.6
70°	2281.7	2301.9	2630.8	3295.0	4349.1	5017.9	4104.9	3134.8	2563.4	2258.7	2217.8
72.5°	1213.1	1287.5	1568.6	2261.5	3530.0	4320.3	3365.8	2287.5	1653.2	1351.4	1297.3
75°	443.0	452.2	608.9	1002.9	2053.6	2962.6	2132.5	1091.0	627.3	484.5	459.7
77.5°	183.2	182.6	200.5	303.0	746.0	1517.3	832.4	320.3	199.9	184.9	182.6
80°	108.3	108.3	119.2	126.2	196.4	458.0	219.5	142.9	119.8	109.4	111.2
82.5°	48.4	51.3	75.5	79.5	95.0	125.6	106.0	91.0	78.3	54.1	49.0
85°	26.5	23.0	39.7	41.5	45.5	46.7	50.1	49.5	45.5	26.5	27.1
87.5°	5.2	6.3	11.5	8.6	9.8	8.6	11.5	16.1	16.7	9.2	7.5
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)