

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: P450393

Luminaire Tested: **GALN-SA1B-722-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450393  
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-SA1B-722-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2200K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4439 lumens  
Efficiency: N/A  
Efficacy: 100.9 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

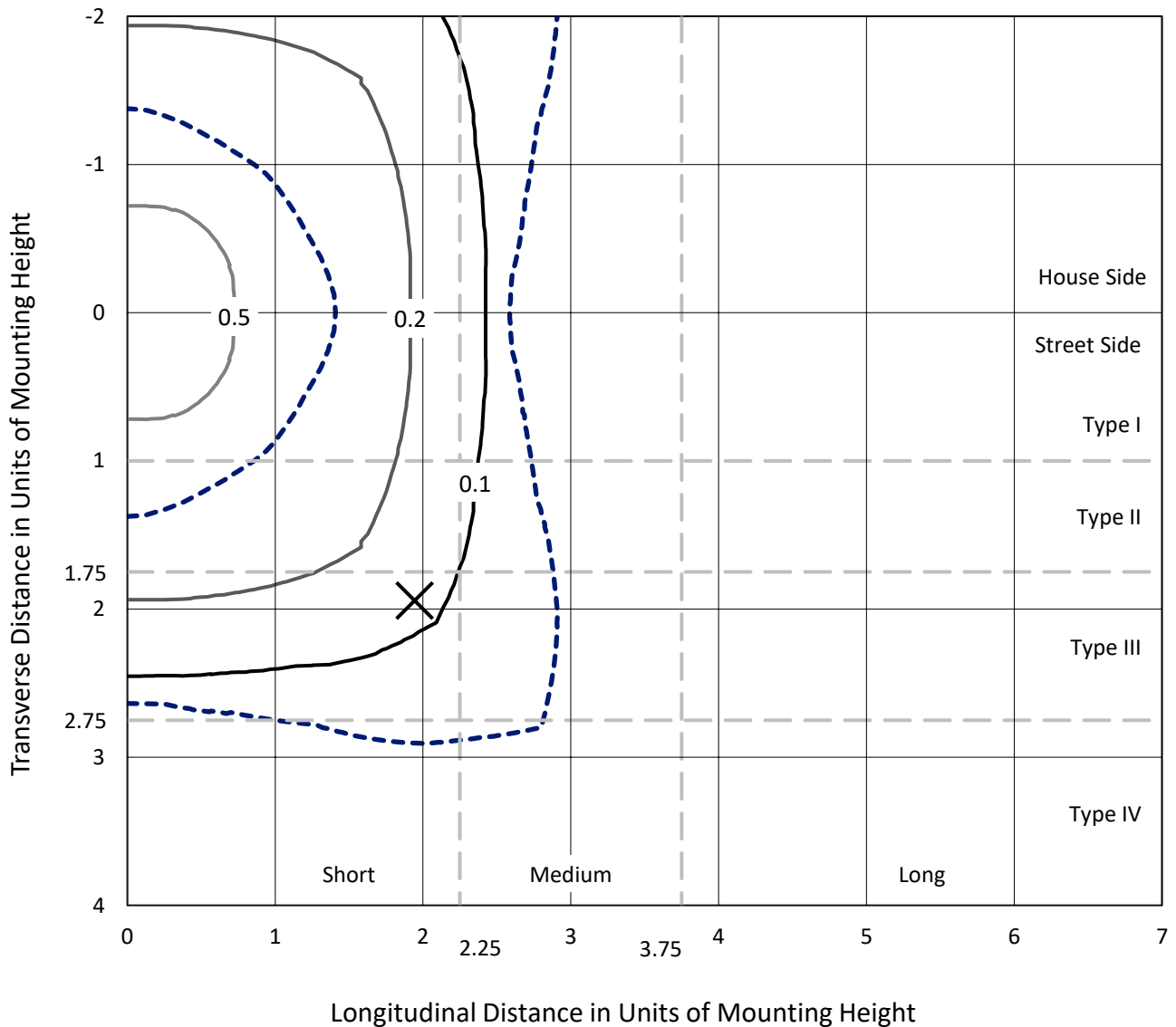
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

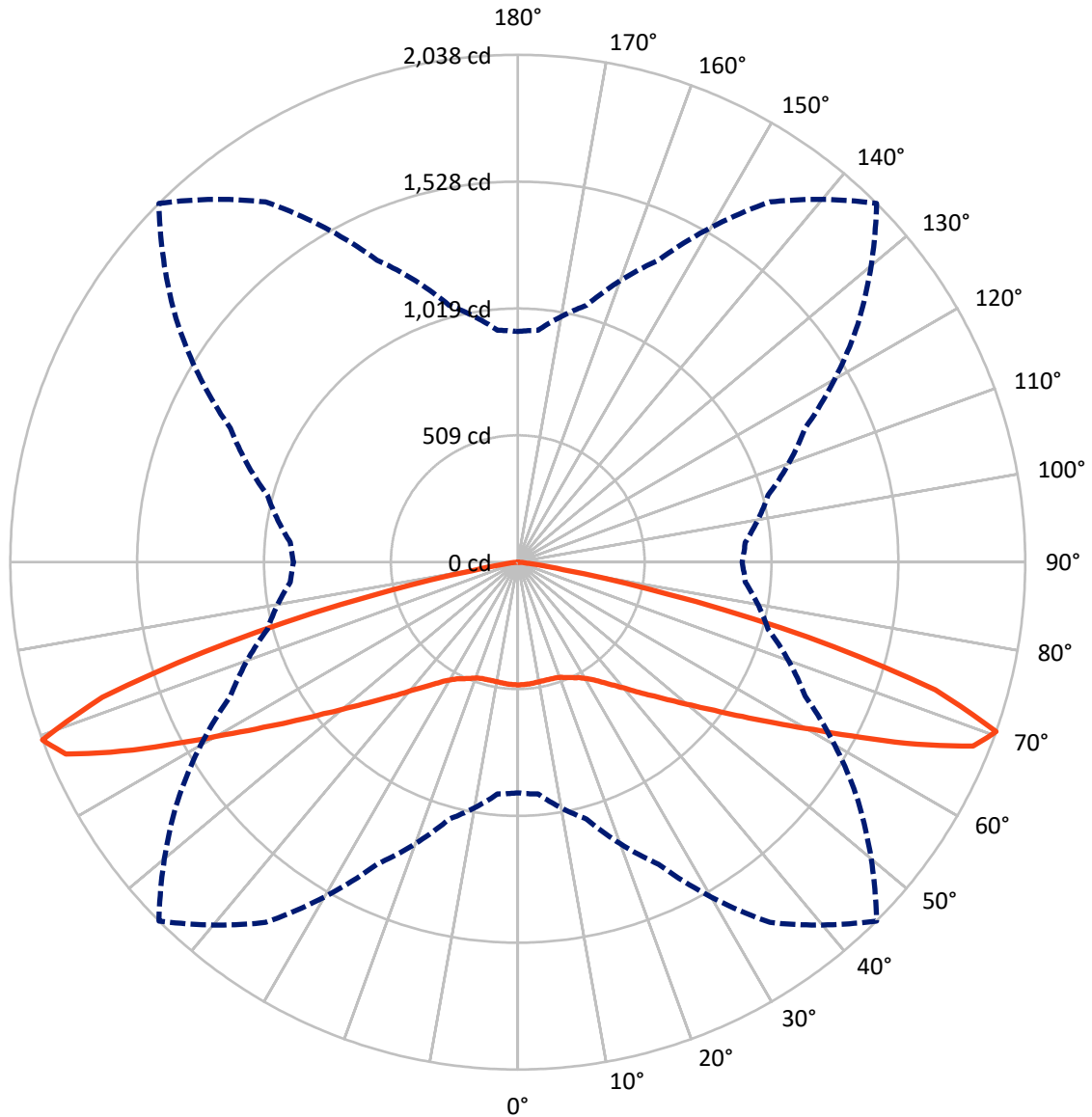
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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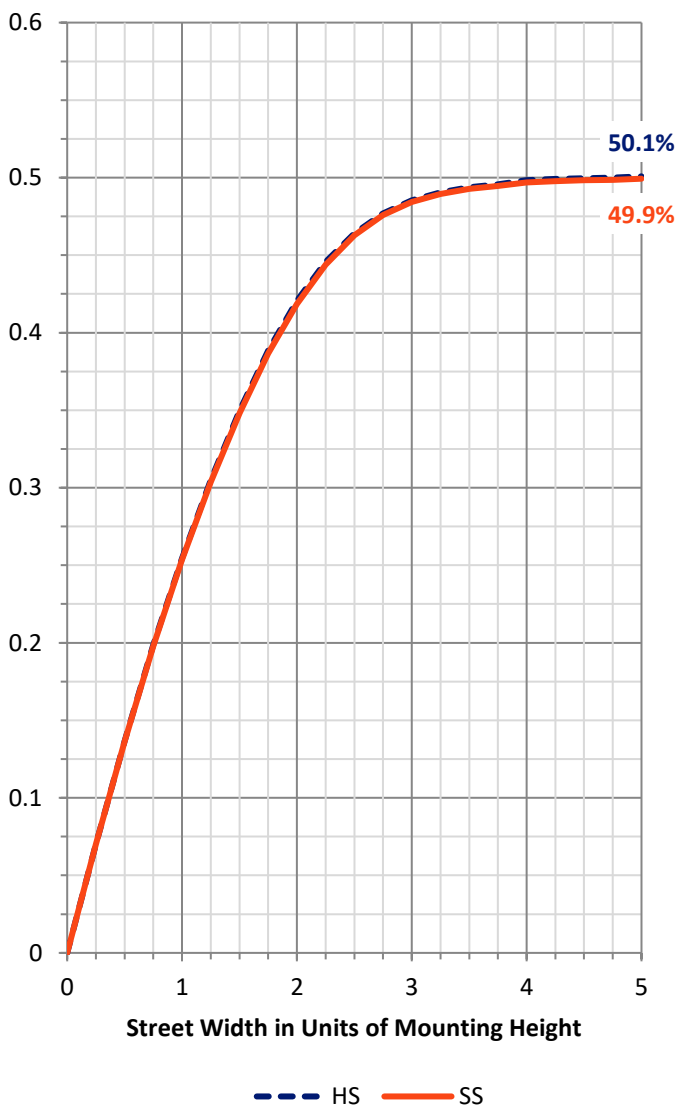
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2219.5	0.0	2219.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2219.5	0.0	2219.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4439.0	0.0	4439.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.7	1.1
10°-20°	137.2	3.1
20°-30°	234.6	5.3
30°-40°	372.4	8.4
40°-50°	600.7	13.5
50°-60°	977.4	22.0
60°-70°	1416.8	31.9
70°-80°	628.5	14.2
80°-90°	24.8	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°	4439.0	100.0
0°-180°	4439.0	100.0



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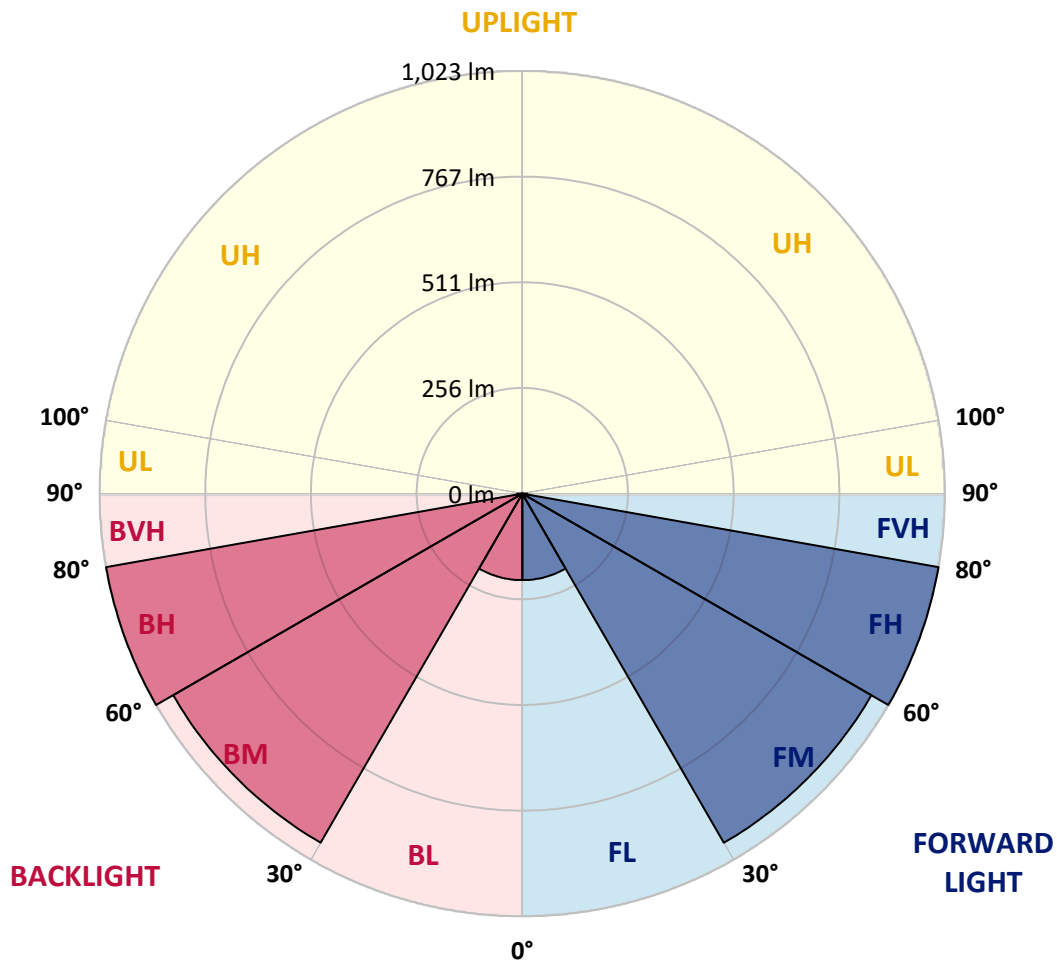
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	209.3	4.7			
FM (30°-60°)	975.2	22.0			
FH (60°-80°)	1022.6	23.0			G1/1800
FVH (80°-90°)	12.4	0.3			G1/100
BL (0°-30°)	209.3	4.7	B1/500		
BM (30°-60°)	975.2	22.0	B1/1000		
BH (60°-80°)	1022.6	23.0	B3/2500		G1/1800
BVH (80°-90°)	12.4	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°	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9
2.5°	492.9	493.4	492.7	492.2	492.0	492.0	491.8	492.0	493.4	493.6	492.9
5°	491.5	492.0	491.8	491.3	491.1	491.1	490.8	490.6	491.8	492.2	492.0
7.5°	489.7	489.9	489.7	489.4	489.7	489.4	488.7	488.3	489.2	489.2	489.0
10°	486.4	486.8	486.6	486.8	487.3	487.3	486.4	485.4	485.7	485.2	485.2
12.5°	482.4	483.1	483.3	484.3	485.4	486.8	484.7	482.6	482.2	481.9	481.7
15°	479.8	480.5	481.5	482.4	484.5	487.5	484.5	481.2	480.3	479.4	478.9
17.5°	479.1	480.1	481.5	482.9	485.7	488.7	486.1	482.9	480.5	479.1	478.7
20°	481.0	481.7	483.8	486.4	490.4	493.4	490.8	487.3	483.8	481.7	481.0
22.5°	484.7	485.9	488.5	493.2	498.8	503.2	499.7	493.9	488.3	485.4	484.5
25°	492.9	493.9	496.9	503.2	509.8	514.0	510.2	503.5	495.7	492.0	490.8
27.5°	505.3	506.7	510.0	517.5	522.9	525.2	522.6	518.0	512.3	508.4	507.4
30°	522.9	524.5	529.4	537.4	540.9	542.3	541.1	538.1	534.1	529.9	529.0
32.5°	546.5	547.4	553.1	560.5	563.8	564.3	562.9	561.5	554.9	547.9	547.4
35°	572.9	574.6	581.4	590.3	593.3	593.5	590.7	588.6	580.9	575.3	575.3
37.5°	608.0	608.7	615.3	625.3	628.6	627.7	626.3	624.4	616.2	609.0	609.2
40°	649.2	650.6	656.2	667.9	667.9	666.8	667.7	666.3	658.1	651.1	651.3
42.5°	698.1	698.8	705.6	718.0	717.1	714.7	715.6	713.8	708.6	700.7	697.9
45°	750.3	753.1	764.8	776.7	774.8	767.4	771.1	770.6	765.9	754.0	754.7
47.5°	813.2	817.9	829.1	843.4	841.3	829.6	833.8	836.6	830.1	816.9	814.6
50°	884.1	887.1	903.7	917.1	915.2	902.8	912.4	912.9	896.5	878.0	878.0
52.5°	959.7	962.7	985.2	1006.0	1007.1	989.1	996.9	996.4	969.7	945.4	940.7
55°	1044.3	1045.8	1074.8	1105.4	1112.0	1094.4	1095.3	1086.0	1051.4	1023.1	1020.5
57.5°	1131.8	1137.0	1169.0	1208.8	1228.2	1217.5	1212.6	1187.5	1154.1	1121.6	1119.9
60°	1228.7	1228.9	1270.6	1317.6	1356.9	1364.2	1344.0	1310.6	1267.3	1224.3	1222.4
62.5°	1295.8	1305.9	1358.5	1438.1	1508.5	1549.2	1496.1	1425.9	1340.8	1271.3	1264.3
65°	1309.6	1316.4	1396.7	1531.4	1675.3	1763.0	1640.2	1491.0	1345.7	1253.0	1248.4
67.5°	1198.1	1205.3	1313.4	1520.2	1792.3	1972.2	1733.8	1459.6	1262.4	1147.8	1138.6
70°	926.7	934.9	1068.4	1338.2	1766.3	2037.9	1667.1	1273.1	1041.1	917.3	900.7
72.5°	492.7	522.9	637.0	918.5	1433.6	1754.6	1367.0	929.0	671.4	548.8	526.9
75°	179.9	183.6	247.3	407.3	834.0	1203.2	866.1	443.1	254.8	196.8	186.7
77.5°	74.4	74.2	81.4	123.1	303.0	616.2	338.1	130.1	81.2	75.1	74.2
80°	44.0	44.0	48.4	51.2	79.8	186.0	89.1	58.0	48.7	44.5	45.2
82.5°	19.7	20.8	30.6	32.3	38.6	51.0	43.0	37.0	31.8	22.0	19.9
85°	10.8	9.4	16.1	16.8	18.5	18.9	20.4	20.1	18.5	10.8	11.0
87.5°	2.1	2.6	4.7	3.5	4.0	3.5	4.7	6.6	6.8	3.7	3.0
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)