

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: P450219

Luminaire Tested: **GALN-SA1A-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450219
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-SA1A-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4420 lumens
Efficiency: N/A
Efficacy: 133.9 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

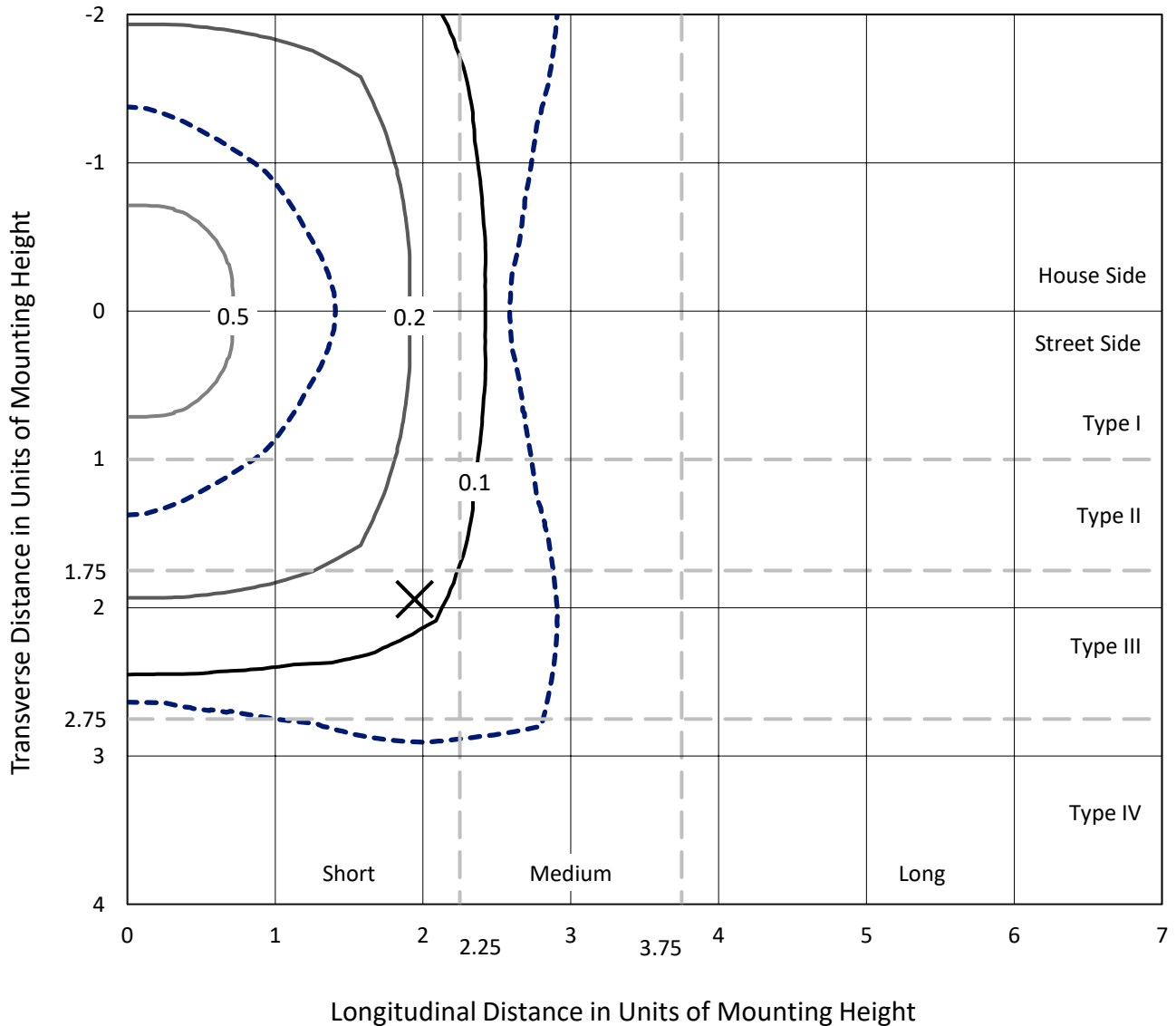
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

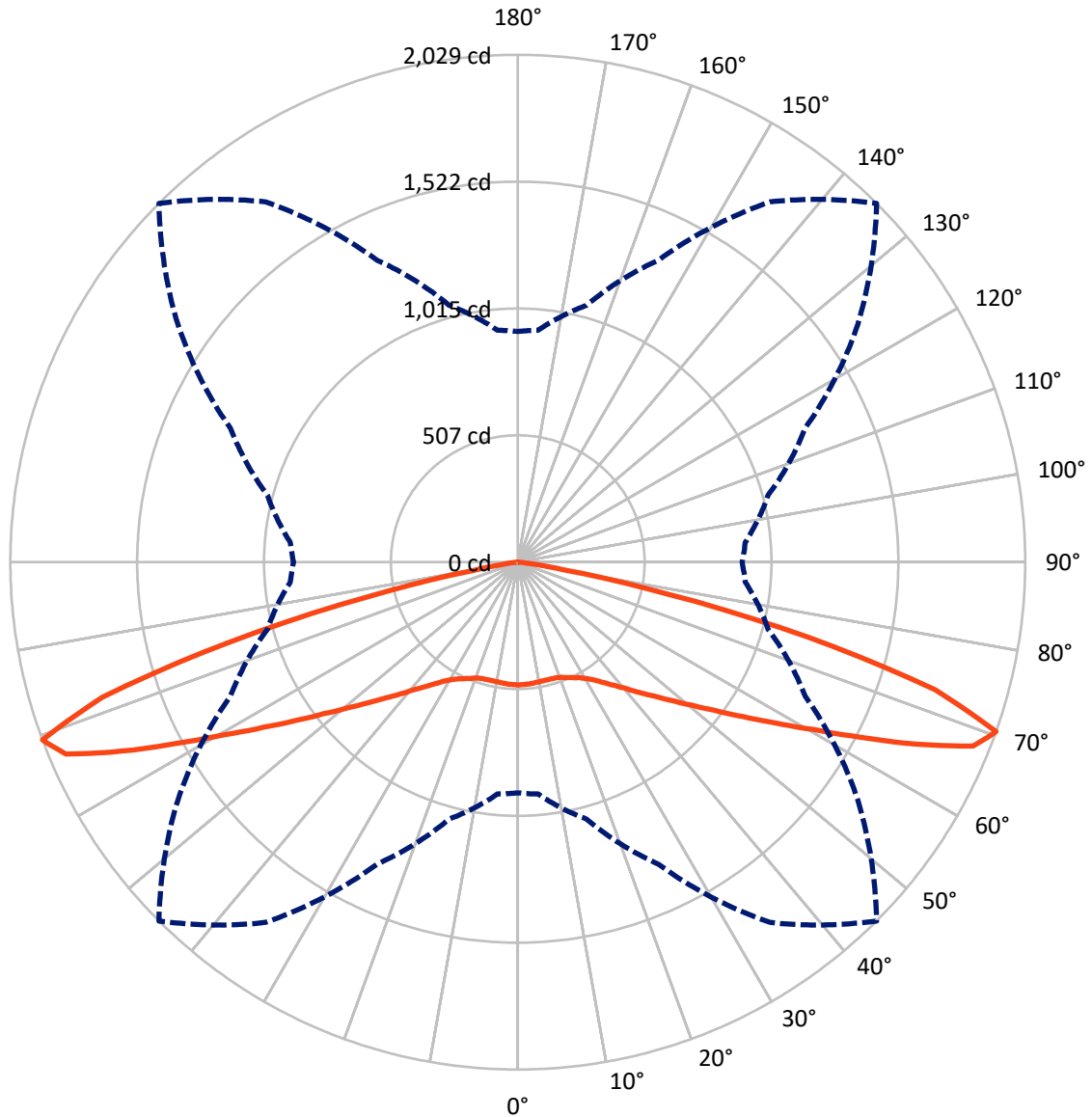
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	2210.0	0.0	2210.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2210.0	0.0	2210.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4420.0	0.0	4420.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	1.1
10°-20°	136.6	3.1
20°-30°	233.6	5.3
30°-40°	370.8	8.4
40°-50°	598.1	13.5
50°-60°	973.2	22.0
60°-70°	1410.8	31.9
70°-80°	625.8	14.2
80°-90°	24.7	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°	4420.0	100.0
0°-180°	4420.0	100.0



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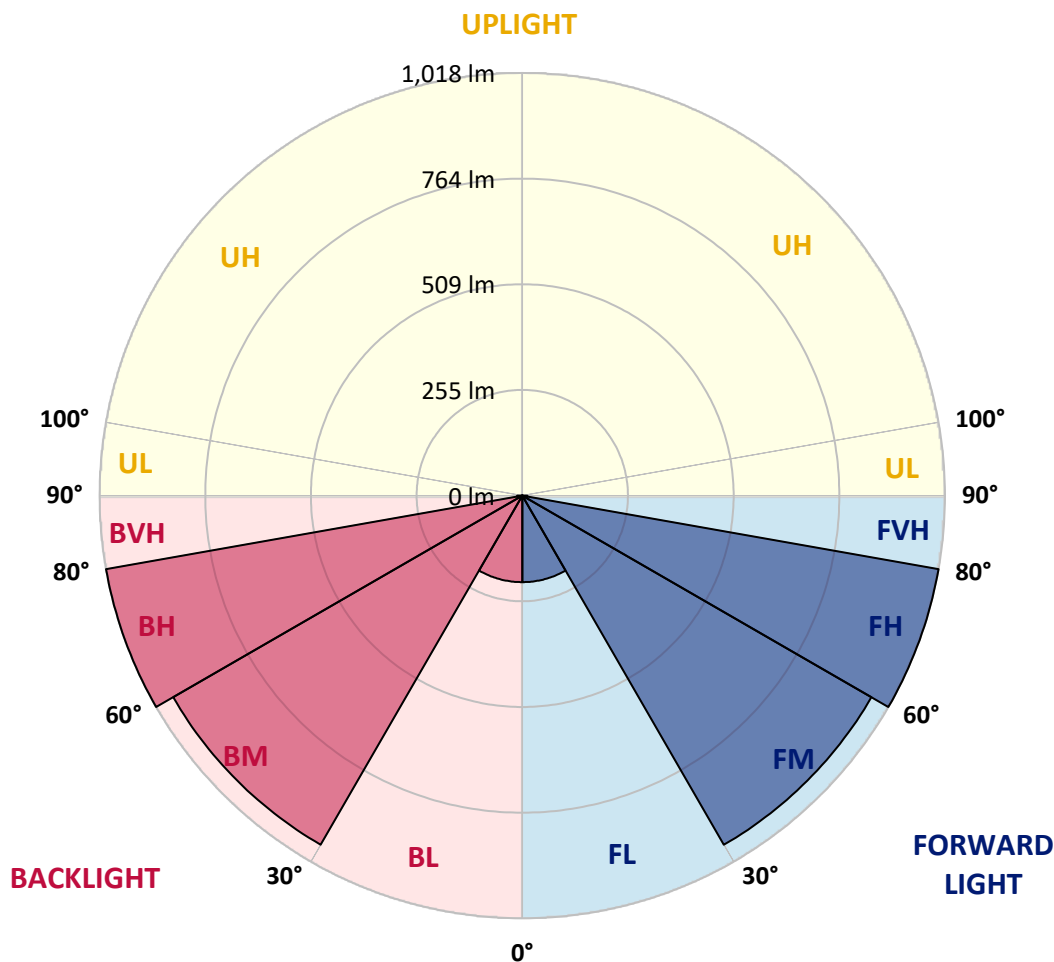
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	208.4	4.7			
FM (30°-60°)	971.0	22.0			
FH (60°-80°)	1018.3	23.0			G1/1800
FVH (80°-90°)	12.3	0.3			G1/100
BL (0°-30°)	208.4	4.7	B1/500		
BM (30°-60°)	971.0	22.0	B1/1000		
BH (60°-80°)	1018.3	23.0	B3/2500		G1/1800
BVH (80°-90°)	12.3	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°	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8	490.8
2.5°	490.8	491.3	490.6	490.1	489.9	489.9	489.7	489.9	491.3	491.5	490.8
5°	489.4	489.9	489.7	489.2	489.0	489.0	488.7	488.5	489.7	490.1	489.9
7.5°	487.6	487.8	487.6	487.3	487.6	487.3	486.6	486.2	487.1	487.1	486.9
10°	484.3	484.8	484.5	484.8	485.2	485.2	484.3	483.4	483.6	483.1	483.1
12.5°	480.3	481.0	481.3	482.2	483.4	484.8	482.7	480.6	480.1	479.9	479.6
15°	477.8	478.5	479.4	480.3	482.4	485.5	482.4	479.2	478.2	477.3	476.8
17.5°	477.1	478.0	479.4	480.8	483.6	486.6	484.1	480.8	478.5	477.1	476.6
20°	478.9	479.6	481.7	484.3	488.3	491.3	488.7	485.2	481.7	479.6	478.9
22.5°	482.7	483.8	486.4	491.1	496.6	501.1	497.6	491.8	486.2	483.4	482.4
25°	490.8	491.8	494.8	501.1	507.6	511.8	508.1	501.3	493.6	489.9	488.7
27.5°	503.2	504.6	507.8	515.3	520.6	523.0	520.4	515.7	510.2	506.2	505.3
30°	520.6	522.3	527.2	535.1	538.6	540.0	538.8	535.8	531.8	527.6	526.7
32.5°	544.2	545.1	550.7	558.1	561.4	561.9	560.5	559.1	552.6	545.6	545.1
35°	570.5	572.1	578.9	587.7	590.8	591.0	588.2	586.1	578.4	572.8	572.8
37.5°	605.4	606.1	612.7	622.7	625.9	625.0	623.6	621.7	613.6	606.4	606.6
40°	646.4	647.8	653.4	665.1	665.1	663.9	664.8	663.4	655.3	648.3	648.5
42.5°	695.1	695.8	702.6	714.9	714.0	711.7	712.6	710.7	705.6	697.7	694.9
45°	747.1	749.9	761.5	773.4	771.5	764.1	767.8	767.3	762.7	750.8	751.5
47.5°	809.7	814.4	825.6	839.8	837.7	826.0	830.2	833.0	826.5	813.5	811.1
50°	880.3	883.3	899.9	913.2	911.3	898.9	908.5	909.0	892.7	874.3	874.3
52.5°	955.6	958.6	980.9	1001.7	1002.8	984.9	992.6	992.1	965.6	941.3	936.7
55°	1039.9	1041.3	1070.2	1100.7	1107.2	1089.7	1090.7	1081.3	1046.9	1018.7	1016.1
57.5°	1127.0	1132.1	1164.0	1203.6	1223.0	1212.3	1207.4	1182.4	1149.1	1116.7	1115.1
60°	1223.4	1223.7	1265.1	1312.0	1351.1	1358.3	1338.3	1305.0	1261.9	1219.0	1217.2
62.5°	1290.3	1300.3	1352.7	1431.9	1502.0	1542.6	1489.7	1419.8	1335.0	1265.8	1258.8
65°	1304.0	1310.8	1390.7	1524.9	1668.1	1755.5	1633.2	1484.6	1339.9	1247.7	1243.0
67.5°	1192.9	1200.1	1307.8	1513.7	1784.6	1963.7	1726.4	1453.4	1257.0	1142.8	1133.8
70°	922.7	930.9	1063.9	1332.5	1758.8	2029.2	1660.0	1267.7	1036.6	913.4	896.8
72.5°	490.6	520.6	634.3	914.6	1427.5	1747.1	1361.1	925.0	668.6	546.5	524.6
75°	179.1	182.9	246.2	405.6	830.5	1198.0	862.4	441.2	253.7	195.9	185.9
77.5°	74.1	73.8	81.1	122.5	301.7	613.6	336.6	129.5	80.8	74.8	73.8
80°	43.8	43.8	48.2	51.0	79.4	185.2	88.8	57.8	48.5	44.3	45.0
82.5°	19.6	20.7	30.5	32.1	38.4	50.8	42.9	36.8	31.7	21.9	19.8
85°	10.7	9.3	16.1	16.8	18.4	18.9	20.3	20.0	18.4	10.7	10.9
87.5°	2.1	2.6	4.7	3.5	4.0	3.5	4.7	6.5	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)