

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: P450224

Luminaire Tested: **GALN-SA1A-730-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450224  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
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-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4348 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

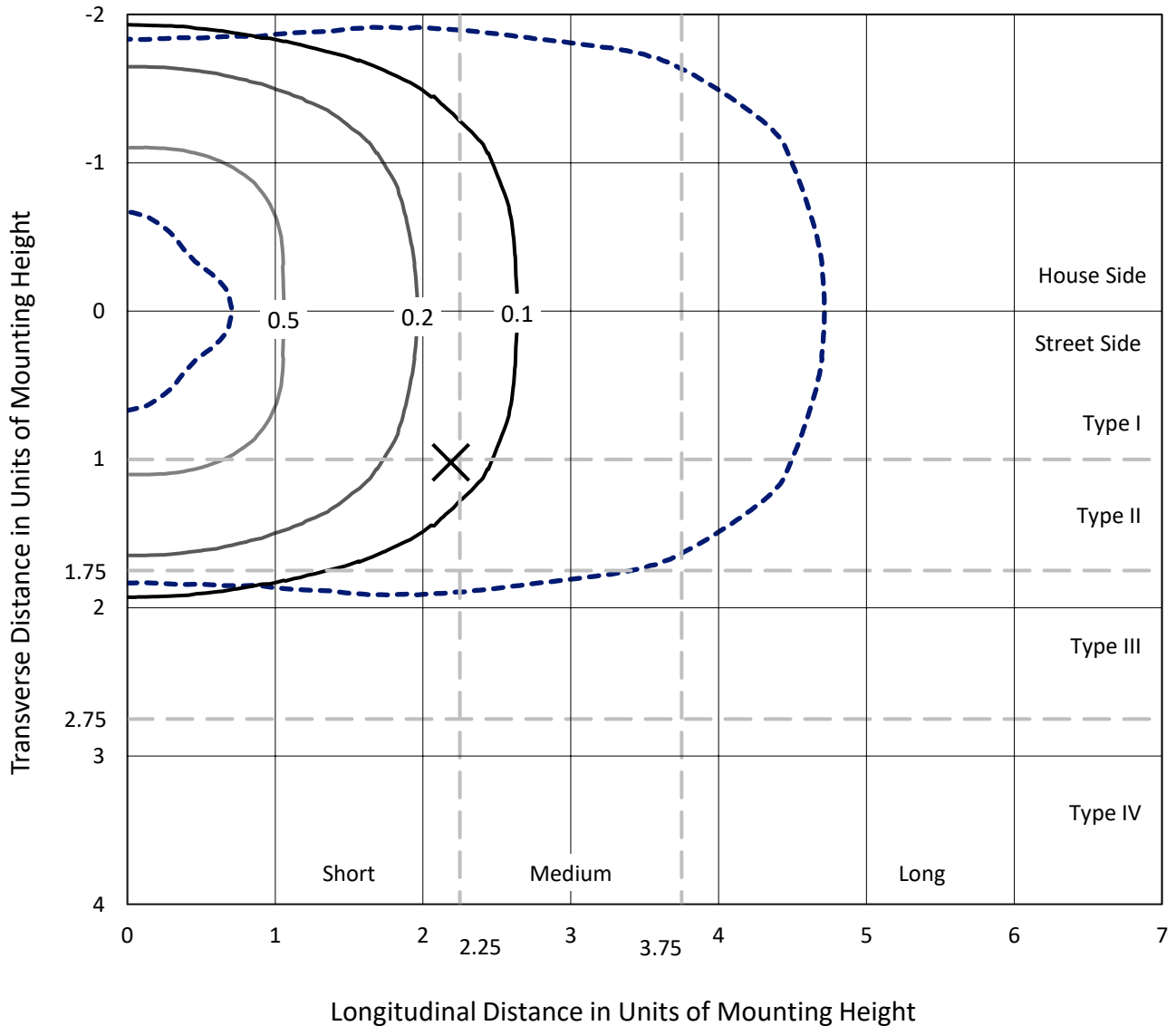
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

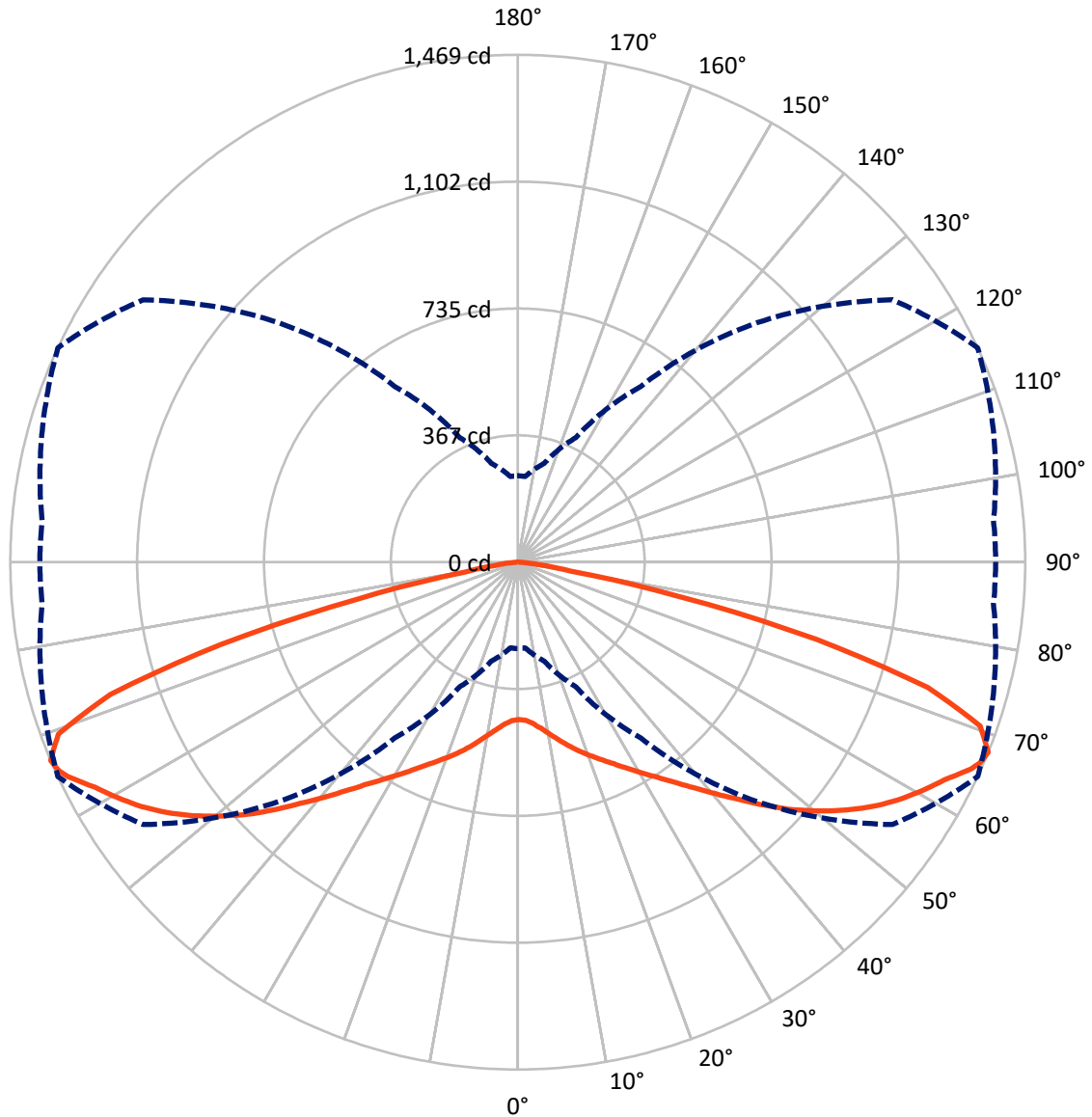
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2174.0	0.0	2174.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2174.0	0.0	2174.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4348.0	0.0	4348.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.9	1.0
10°-20°	150.3	3.5
20°-30°	294.1	6.8
30°-40°	500.1	11.5
40°-50°	791.6	18.2
50°-60°	1049.6	24.1
60°-70°	990.1	22.8
70°-80°	489.5	11.3
80°-90°	37.7	0.9
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°	4348.0	100.0
0°-180°	4348.0	100.0



REPORT NUMBER: P450224

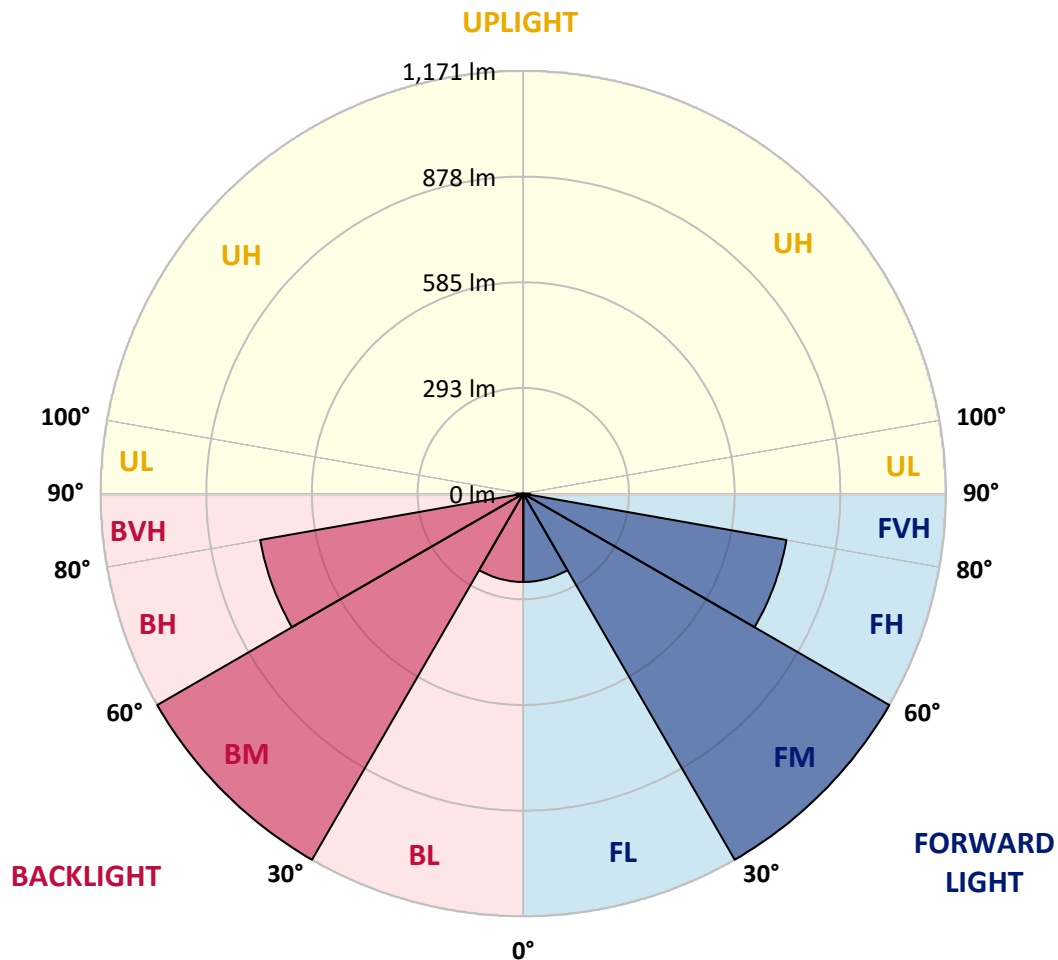
CATALOG NUMBER: GALN-SA1A-730-U-RW

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	244.7	5.6			
FM (30°-60°)	1170.7	26.9			
FH (60°-80°)	739.8	17.0			G1/1800
FVH (80°-90°)	18.9	0.4			G1/100
BL (0°-30°)	244.7	5.6	B1/500		
BM (30°-60°)	1170.7	26.9	B2/2500		
BH (60°-80°)	739.8	17.0	B2/1000		G2/1000
BVH (80°-90°)	18.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4
2.5°	453.1	453.6	454.0	454.7	455.6	457.0	458.0	458.7	460.5	460.8	460.5
5°	451.5	451.9	453.1	455.2	458.2	462.4	465.7	469.6	472.7	474.7	474.3
7.5°	451.2	452.2	454.0	458.4	464.3	471.5	478.9	485.7	491.5	496.2	495.5
10°	454.9	456.1	459.1	465.7	474.7	485.2	495.7	505.7	514.1	520.2	522.3
12.5°	461.2	462.2	467.8	477.5	490.6	503.6	515.5	527.9	539.5	549.8	549.8
15°	472.2	473.8	480.8	495.0	511.1	526.2	538.3	551.4	564.0	575.6	579.1
17.5°	487.3	489.7	500.1	518.3	538.8	552.8	564.2	574.9	585.9	597.0	598.7
20°	508.1	510.4	524.4	546.3	570.5	587.3	595.0	597.5	602.9	613.6	615.0
22.5°	536.2	538.6	554.2	578.9	605.9	624.1	627.3	621.3	619.9	628.3	629.2
25°	568.2	570.3	588.2	614.8	642.7	662.5	661.6	646.7	638.3	643.4	644.8
27.5°	604.0	607.1	625.2	652.7	683.0	700.5	697.7	676.0	658.1	657.1	657.6
30°	649.9	653.2	670.4	696.7	726.6	742.6	736.8	707.7	680.0	670.7	670.7
32.5°	698.4	706.5	724.0	751.5	774.8	786.4	777.6	742.6	705.8	692.8	692.1
35°	761.5	765.9	783.2	810.0	827.4	836.5	819.5	782.0	739.6	724.2	722.1
37.5°	823.2	827.0	847.0	872.6	893.8	893.4	870.3	828.8	781.5	764.3	762.9
40°	886.4	890.3	913.2	936.7	957.9	956.0	928.1	881.7	831.4	812.1	815.8
42.5°	941.1	945.5	971.4	1004.9	1024.0	1023.6	991.2	939.0	886.6	869.4	872.6
45°	991.0	994.9	1025.0	1063.4	1091.4	1094.9	1059.5	1004.2	950.4	928.3	929.2
47.5°	1026.1	1033.6	1065.0	1109.1	1147.0	1159.4	1124.7	1070.6	1008.7	985.6	987.0
50°	1052.9	1057.6	1091.8	1141.9	1189.9	1215.5	1187.6	1132.1	1066.9	1042.4	1045.7
52.5°	1056.2	1061.8	1099.1	1156.8	1218.3	1257.2	1243.5	1192.2	1126.3	1101.1	1108.1
55°	1029.6	1032.9	1077.4	1147.5	1229.5	1288.2	1291.7	1248.1	1182.9	1163.8	1168.5
57.5°	953.9	962.3	1018.7	1103.9	1214.1	1304.7	1327.8	1298.9	1240.2	1221.3	1228.8
60°	829.8	838.1	894.8	1002.8	1156.1	1297.1	1357.6	1343.9	1292.2	1277.0	1281.0
62.5°	650.2	649.5	719.6	852.1	1040.8	1259.3	1379.8	1387.2	1343.4	1324.3	1330.4
65°	421.4	423.5	491.3	634.1	866.8	1163.3	1384.6	1442.4	1393.7	1364.8	1369.3
66°	338.9	345.2	402.8	534.4	778.0	1100.4	1370.0	1458.7	1409.1	1374.2	1376.3
67.5°	250.2	249.0	296.3	397.9	621.3	980.9	1324.1	1469.0	1426.6	1382.6	1383.5
70°	142.8	142.6	159.3	218.5	365.3	690.7	1116.1	1419.8	1462.0	1412.8	1410.3
72.5°	104.4	103.7	106.0	120.7	178.2	348.7	769.9	1240.9	1443.8	1407.9	1400.7
75°	87.6	87.1	86.7	88.5	99.9	157.9	408.6	892.7	1252.8	1321.5	1314.1
77.5°	71.5	71.5	71.7	71.3	71.7	83.2	169.4	478.5	762.9	851.7	872.4
80°	55.9	55.7	59.6	58.0	54.3	53.3	75.0	154.0	253.2	251.8	207.8
82.5°	41.2	38.4	45.4	44.3	40.1	34.0	43.8	65.7	84.6	55.0	40.8
85°	26.1	25.9	32.1	29.4	24.5	16.1	21.0	28.2	34.9	21.2	17.2
87.5°	4.7	4.4	10.2	7.5	7.5	4.7	5.8	7.7	11.4	7.9	5.8
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)