

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: P450366

Luminaire Tested: **GALN-SA1A-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450366
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-SA1A-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3848 lumens
Efficiency: N/A
Efficacy: 116.6 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

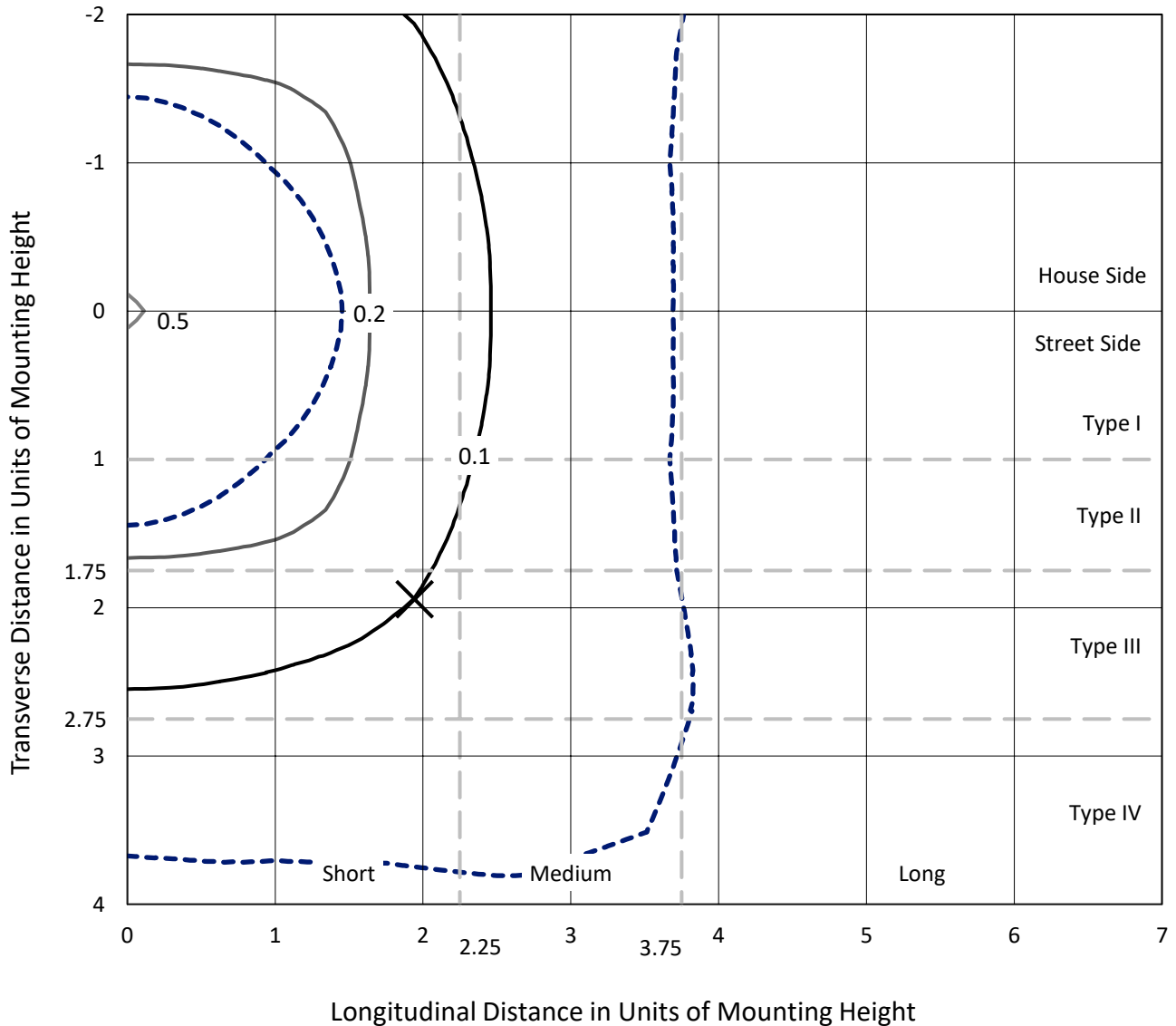
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

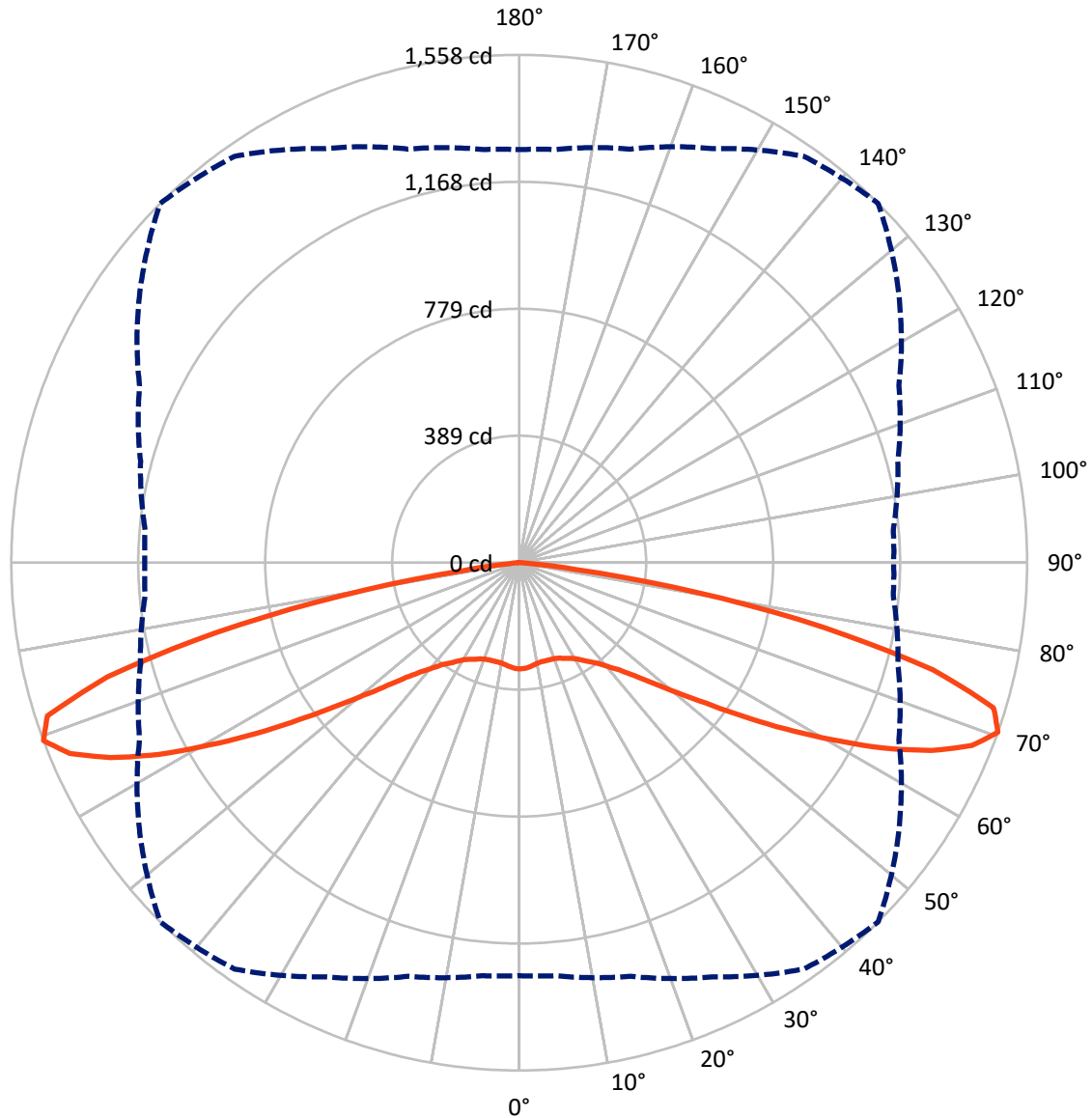
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 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	1924.0	0.0	1924.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1924.0	0.0	1924.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3848.0	0.0	3848.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	0.8
10°-20°	89.2	2.3
20°-30°	152.0	3.9
30°-40°	235.5	6.1
40°-50°	396.4	10.3
50°-60°	721.3	18.7
60°-70°	1221.2	31.7
70°-80°	945.2	24.6
80°-90°	56.6	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°	3848.0	100.0
0°-180°	3848.0	100.0



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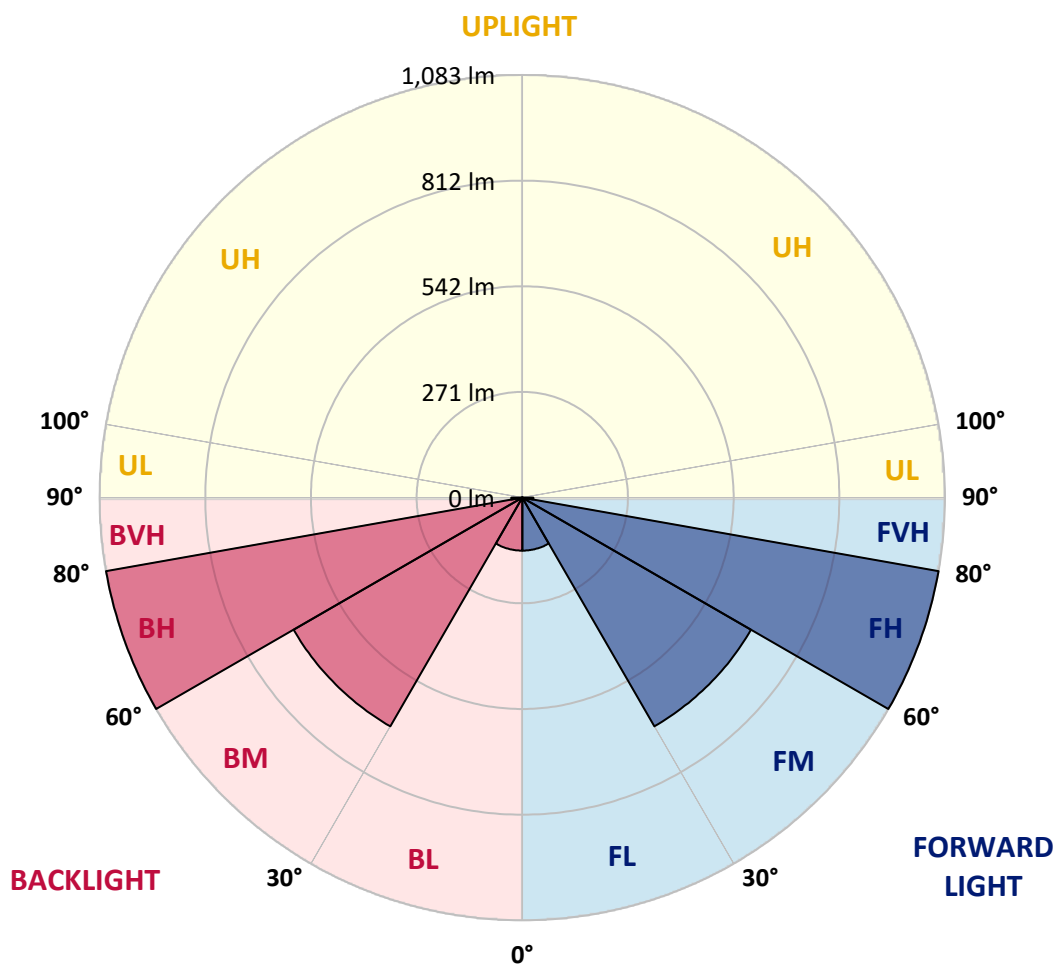
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	135.8	3.5			
FM (30°-60°)	676.7	17.6			
FH (60°-80°)	1083.2	28.2			G1/1800
FVH (80°-90°)	28.3	0.7			G1/100
BL (0°-30°)	135.8	3.5	B1/500		
BM (30°-60°)	676.7	17.6	B1/1000		
BH (60°-80°)	1083.2	28.2	B3/2500		G1/1800
BVH (80°-90°)	28.3	0.7			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°	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8
2.5°	325.0	325.2	325.2	324.8	324.6	324.6	324.4	324.4	325.0	325.2	325.4
5°	322.1	322.1	322.1	321.9	321.5	321.5	321.1	321.1	321.3	321.9	321.5
7.5°	318.3	318.7	318.7	317.9	317.2	317.2	317.0	317.2	317.4	318.1	317.9
10°	317.0	317.2	316.2	314.8	313.8	313.2	313.4	313.8	314.8	315.2	315.4
12.5°	317.9	317.9	316.0	314.0	312.2	311.4	311.1	312.6	314.4	315.6	316.0
15°	318.9	318.5	316.2	313.6	311.8	311.6	311.4	312.4	315.0	317.4	317.7
17.5°	319.5	319.3	316.4	313.2	312.2	312.2	312.0	312.8	315.6	318.7	318.9
20°	321.5	320.9	317.7	314.2	313.4	313.8	313.2	314.2	317.2	320.9	321.7
22.5°	325.6	325.0	321.7	318.3	317.9	317.9	317.7	318.7	321.9	325.8	326.4
25°	330.5	329.8	326.8	324.4	324.8	325.6	325.2	325.4	328.0	331.3	332.3
27.5°	337.0	335.9	333.3	331.3	332.5	332.5	332.5	332.3	333.9	337.0	338.0
30°	344.9	344.5	341.6	341.4	342.4	341.4	341.4	341.6	341.8	344.7	345.7
32.5°	355.2	354.4	353.0	352.6	355.5	356.3	353.4	350.8	352.2	355.0	355.7
35°	372.3	371.1	369.1	366.8	369.1	372.9	366.8	364.8	368.5	372.3	372.7
37.5°	395.5	394.9	391.6	387.6	387.4	391.4	385.1	384.9	391.8	396.5	397.1
40°	424.6	425.2	421.1	417.2	415.2	418.5	413.6	415.4	422.1	427.4	427.0
42.5°	465.4	463.2	456.9	453.2	451.0	449.8	448.5	451.4	458.9	464.6	469.1
45°	513.2	512.3	504.4	499.9	495.1	493.2	492.8	497.9	507.1	514.0	514.6
47.5°	567.2	565.4	560.3	555.6	553.8	551.6	549.5	553.4	562.5	567.4	568.8
50°	622.9	623.3	623.3	622.5	624.3	624.7	619.2	620.7	625.8	625.3	624.9
52.5°	686.5	688.8	699.3	700.3	709.1	715.0	705.0	699.1	697.3	686.3	687.1
55°	761.3	763.3	779.2	795.0	818.6	828.6	807.6	789.4	776.3	759.7	760.5
57.5°	854.6	855.6	870.6	901.1	938.5	961.9	925.1	888.9	862.5	846.7	840.4
60°	955.0	956.0	978.0	1015.1	1073.3	1101.7	1056.2	997.1	963.7	939.5	941.2
62.5°	1075.5	1079.6	1099.3	1150.5	1221.0	1252.9	1192.6	1113.5	1068.4	1038.3	1039.5
65°	1204.6	1211.5	1233.0	1289.3	1354.3	1388.7	1314.7	1223.5	1167.4	1130.6	1134.4
67.5°	1288.3	1294.4	1325.5	1387.7	1468.8	1497.2	1401.7	1295.4	1225.3	1181.4	1173.3
70°	1266.9	1272.0	1313.5	1401.7	1521.8	1557.8	1422.4	1284.8	1202.3	1151.7	1148.5
72.5°	1118.4	1107.8	1168.4	1295.0	1461.2	1521.6	1357.2	1173.5	1069.6	1017.6	1011.5
75°	741.2	764.2	853.6	1002.7	1236.3	1311.0	1158.4	942.2	811.5	768.2	761.5
77.5°	247.7	265.4	344.9	568.4	842.8	955.2	844.0	616.2	435.9	351.2	352.8
80°	65.6	64.8	83.9	156.3	364.2	553.2	423.9	208.7	114.2	82.7	78.4
82.5°	23.6	26.4	33.9	43.3	96.5	171.9	121.3	58.5	42.9	31.7	30.7
85°	10.4	10.2	14.6	17.3	24.2	32.1	28.5	24.8	21.7	14.4	13.4
87.5°	2.2	2.2	3.5	2.6	4.3	4.3	5.3	6.3	6.5	4.3	3.5
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)