

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: P458529

Luminaire Tested: **GALN-SA1A-735-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4303 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

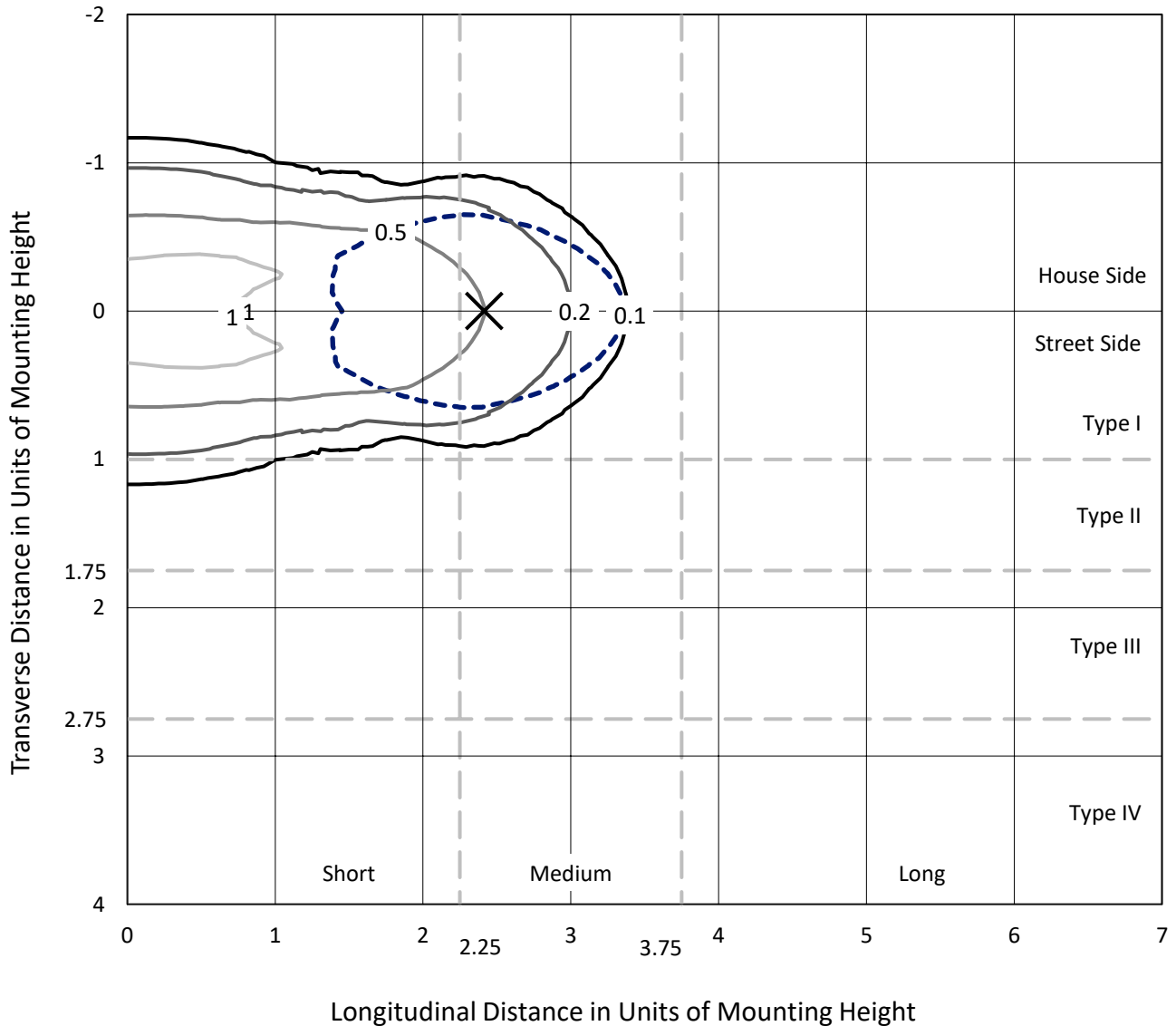
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

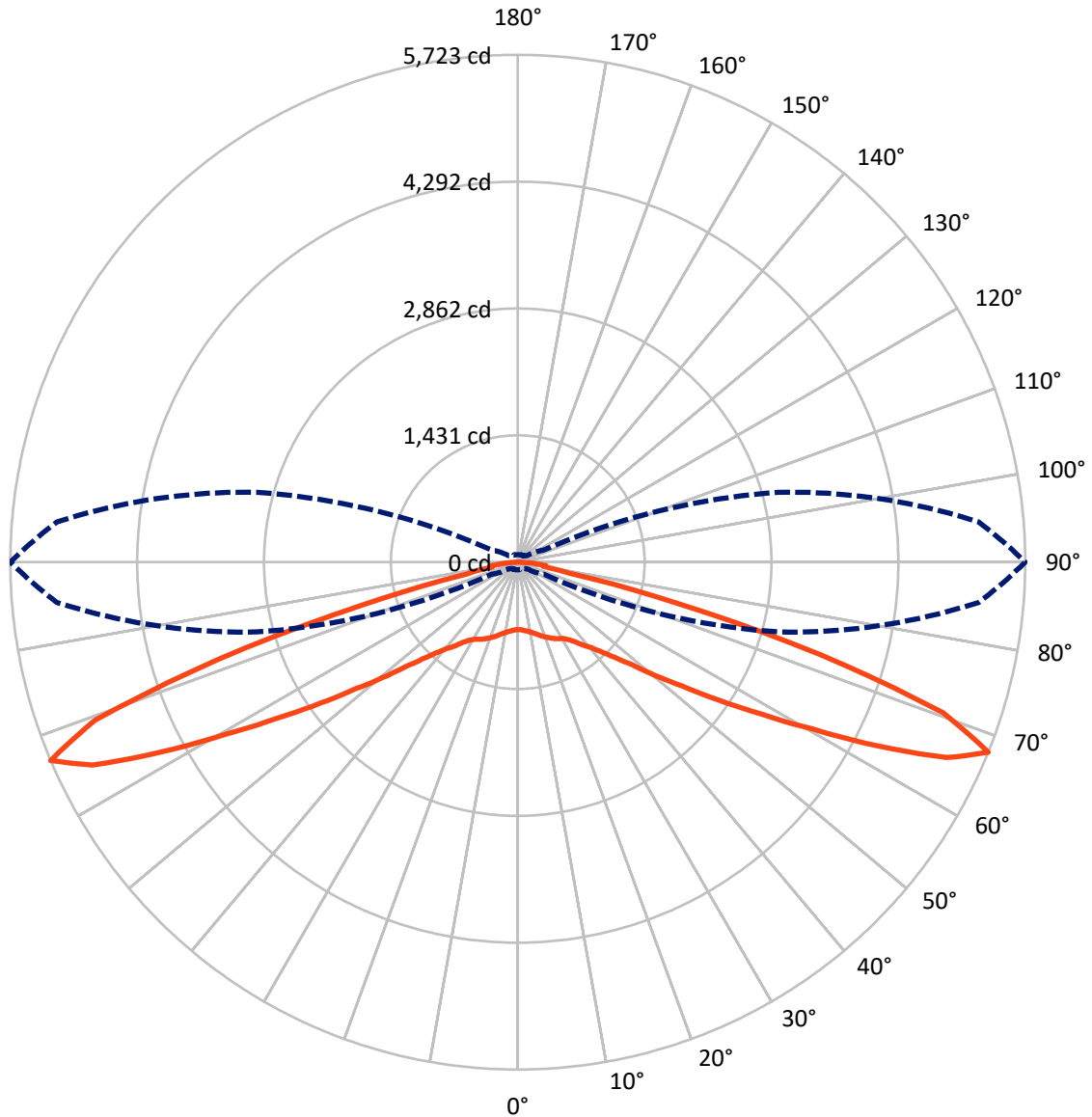
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2151.5	0.0	2151.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2151.5	0.0	2151.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4303.0	0.0	4303.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	1.8
10°-20°	243.0	5.6
20°-30°	406.7	9.5
30°-40°	551.0	12.8
40°-50°	697.9	16.2
50°-60°	871.9	20.3
60°-70°	1024.8	23.8
70°-80°	392.0	9.1
80°-90°	39.7	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°	4303.0	100.0
0°-180°	4303.0	100.0



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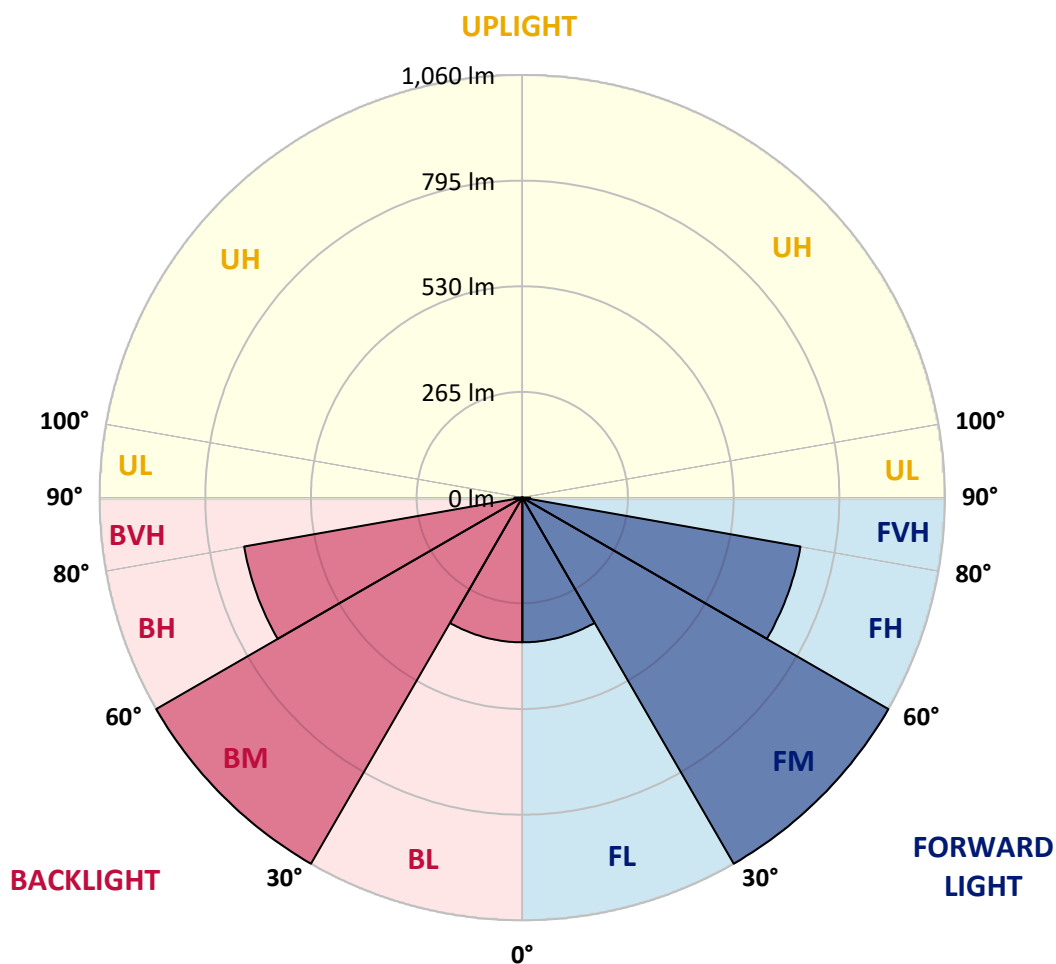
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.8	8.4			
FM	(30°-60°)	1060.4	24.6			
FH	(60°-80°)	708.4	16.5			G1/1800
FVH	(80°-90°)	19.9	0.5			G1/100
BL	(0°-30°)	362.8	8.4	B1/500		
BM	(30°-60°)	1060.4	24.6	B2/2500		
BH	(60°-80°)	708.4	16.5	B2/1000		G2/1000
BVH	(80°-90°)	19.9	0.5			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	761.8	761.8	761.8	761.8	761.8	761.8	761.8	761.8	761.8	761.8	761.8
2.5°	771.5	771.1	771.3	771.1	771.8	771.3	768.4	766.1	764.1	764.4	763.7
5°	788.0	788.2	788.5	787.3	788.9	788.0	783.4	779.6	775.8	774.4	773.9
7.5°	801.6	802.7	803.5	804.7	807.5	807.5	805.1	799.7	791.3	786.5	786.3
10°	815.1	816.1	818.2	822.0	826.8	831.3	830.4	823.0	812.3	804.2	802.3
12.5°	819.9	821.1	828.2	839.2	849.9	858.7	858.7	852.8	839.0	826.6	823.0
15°	803.2	805.4	818.2	841.6	869.7	889.0	893.3	885.0	870.2	851.1	846.8
17.5°	770.1	775.3	794.2	828.7	875.4	915.5	927.8	923.8	904.7	880.4	875.4
20°	734.6	740.3	760.3	806.1	870.7	930.9	966.9	967.9	944.3	909.0	901.6
22.5°	695.5	699.8	725.5	779.2	856.4	934.5	1000.5	1017.0	985.0	937.6	927.1
25°	651.7	656.4	683.4	741.3	829.4	930.5	1031.3	1067.5	1027.7	968.1	954.8
27.5°	609.7	611.7	640.5	699.3	793.9	920.0	1053.9	1113.9	1074.9	993.4	976.5
30°	569.5	574.0	599.5	657.6	753.2	899.5	1073.4	1166.8	1125.6	1019.8	998.1
32.5°	526.8	532.3	559.9	618.8	712.4	868.8	1085.3	1224.7	1196.4	1062.7	1039.6
35°	485.8	489.4	517.3	574.5	672.7	833.0	1087.5	1290.0	1287.6	1127.8	1097.0
37.5°	443.9	449.1	477.3	532.1	630.5	795.1	1076.8	1359.4	1397.7	1218.1	1184.9
40°	403.6	408.2	435.8	491.1	582.6	748.9	1051.3	1422.7	1526.2	1311.0	1264.0
42.5°	359.8	361.0	391.2	447.5	535.6	695.3	1014.6	1479.2	1669.4	1435.6	1377.2
45°	310.0	313.1	341.2	396.5	481.8	635.2	964.8	1525.9	1850.9	1608.4	1528.8
47.5°	260.2	262.8	288.6	343.1	422.9	566.4	888.1	1566.9	2037.3	1827.8	1723.4
50°	211.6	213.0	234.0	282.4	356.7	493.9	793.0	1580.0	2247.9	2138.5	2005.3
52.5°	167.3	169.4	185.4	223.3	285.9	408.4	690.3	1547.6	2493.8	2506.9	2319.1
55°	135.6	136.3	148.2	176.1	223.5	318.8	566.4	1457.3	2758.3	2978.9	2739.4
57.5°	116.8	117.2	123.9	139.4	172.0	240.4	439.4	1286.4	2995.8	3531.9	3224.1
60°	106.0	106.3	110.1	119.1	136.3	184.4	314.8	1045.3	3230.3	4147.4	3826.5
62.5°	99.4	99.4	102.0	107.0	115.3	141.5	228.0	754.1	3390.9	4771.9	4568.9
65°	92.9	92.9	94.8	98.4	102.9	115.8	168.5	491.8	3386.8	5226.8	5315.7
67.5°	85.5	85.5	87.0	90.5	93.2	99.6	130.1	322.1	3042.3	5216.8	5723.1
70°	76.7	76.7	78.6	81.7	83.9	87.9	102.7	220.4	2235.0	4454.3	5089.8
72.5°	67.9	68.1	69.3	72.4	74.1	76.5	85.3	154.4	1371.0	3033.0	3558.9
75°	58.1	58.6	59.8	62.9	64.3	65.3	72.0	110.1	693.6	1635.3	1861.9
77.5°	46.9	47.9	48.6	51.9	52.9	54.3	59.3	79.6	304.5	587.6	592.8
80°	34.3	35.5	37.6	40.7	41.5	42.4	45.3	56.5	138.0	268.3	291.4
82.5°	25.3	26.9	24.3	28.4	28.4	27.2	31.9	37.9	63.4	265.7	317.9
85°	13.8	14.1	12.6	14.5	15.5	15.2	16.9	18.6	30.7	177.3	182.8
87.5°	3.3	3.6	3.8	4.5	5.5	5.5	6.0	5.2	10.0	57.4	32.9
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)