

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: P450191

Luminaire Tested: **GALN-SA1A-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4039 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

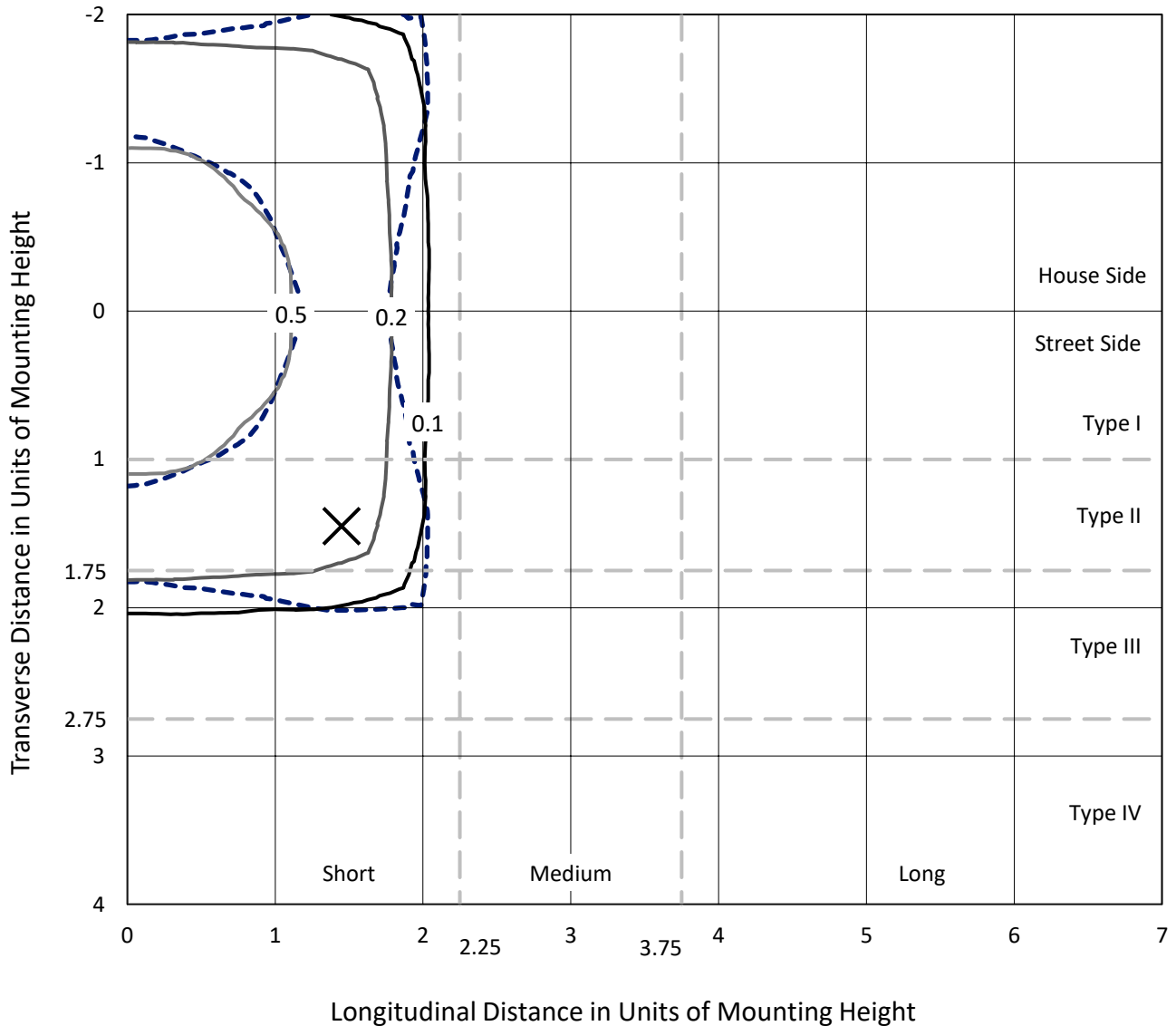
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

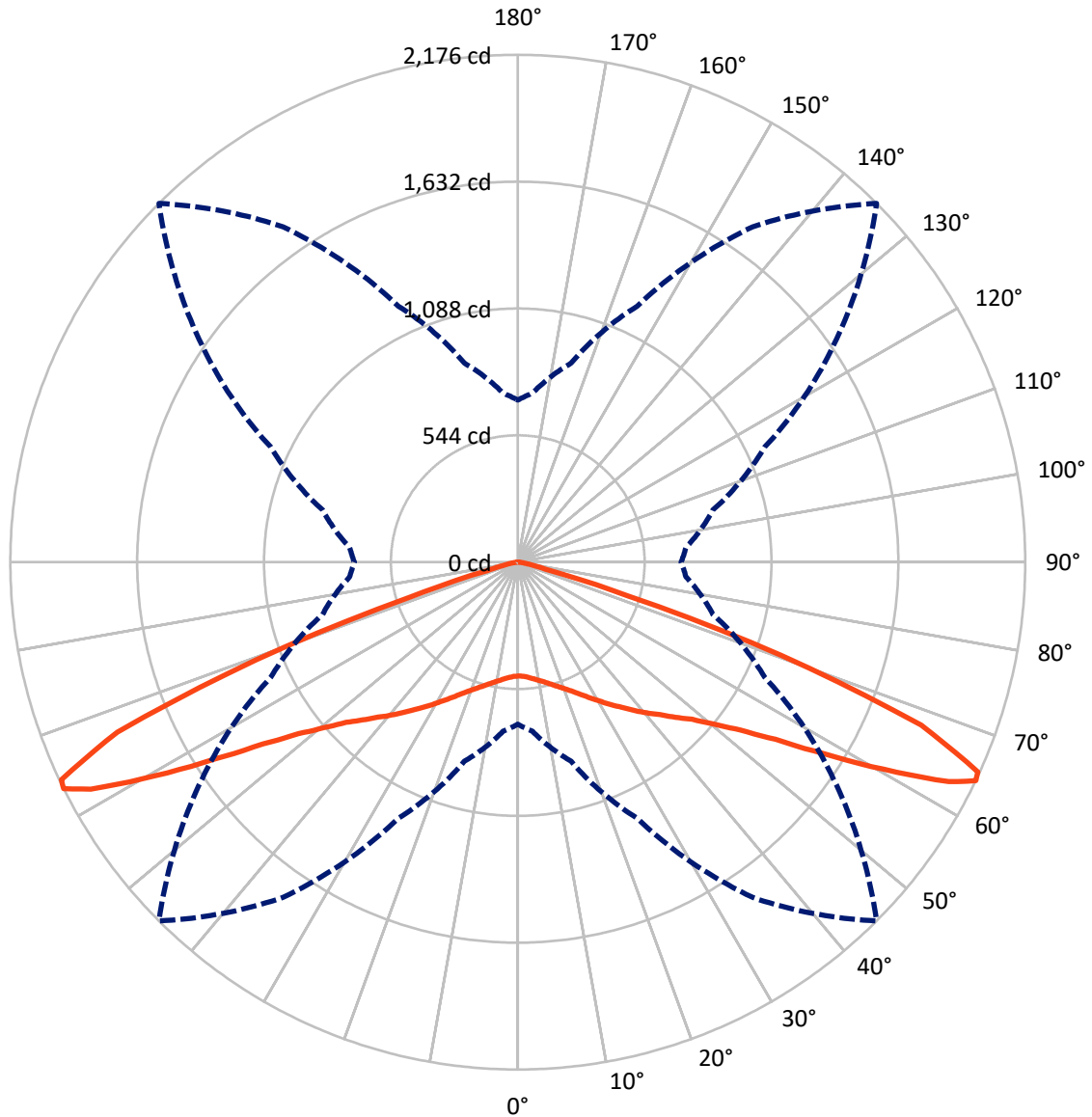
× Max cd
 - - - 1/2 Max cd



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 64-Deg Vertical

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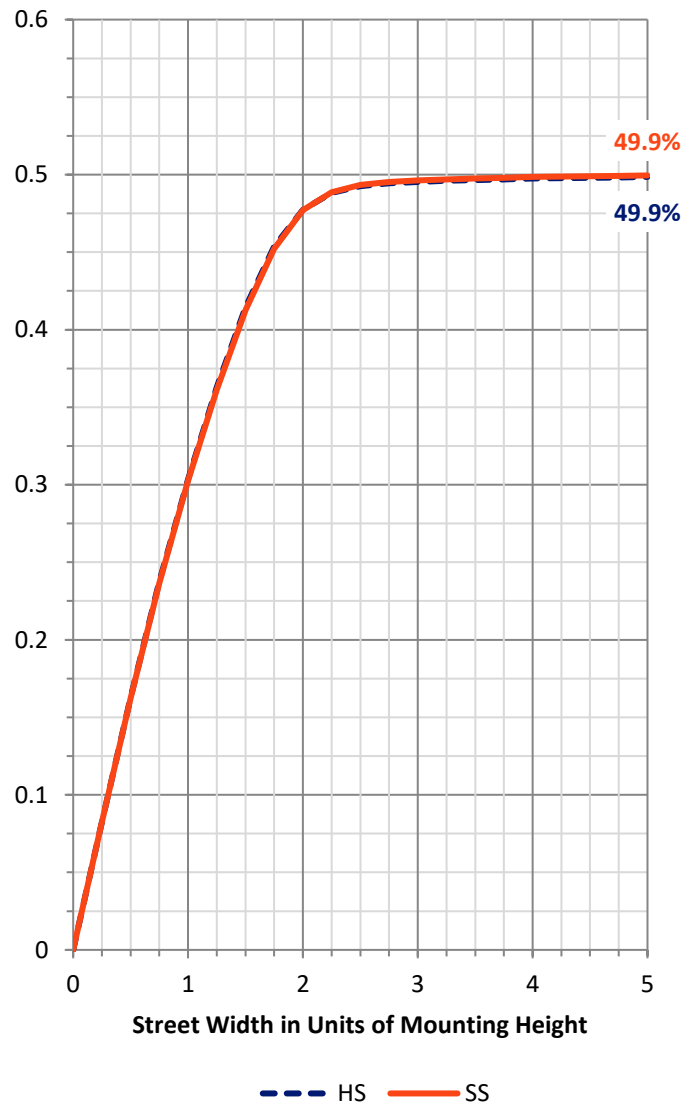
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2019.5	0.0	2019.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2019.5	0.0	2019.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4039.0	0.0	4039.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	1.2
10°-20°	154.7	3.8
20°-30°	292.3	7.2
30°-40°	484.2	12.0
40°-50°	755.8	18.7
50°-60°	1168.5	28.9
60°-70°	1007.6	24.9
70°-80°	114.2	2.8
80°-90°	13.7	0.3
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°	4039.0	100.0
0°-180°	4039.0	100.0



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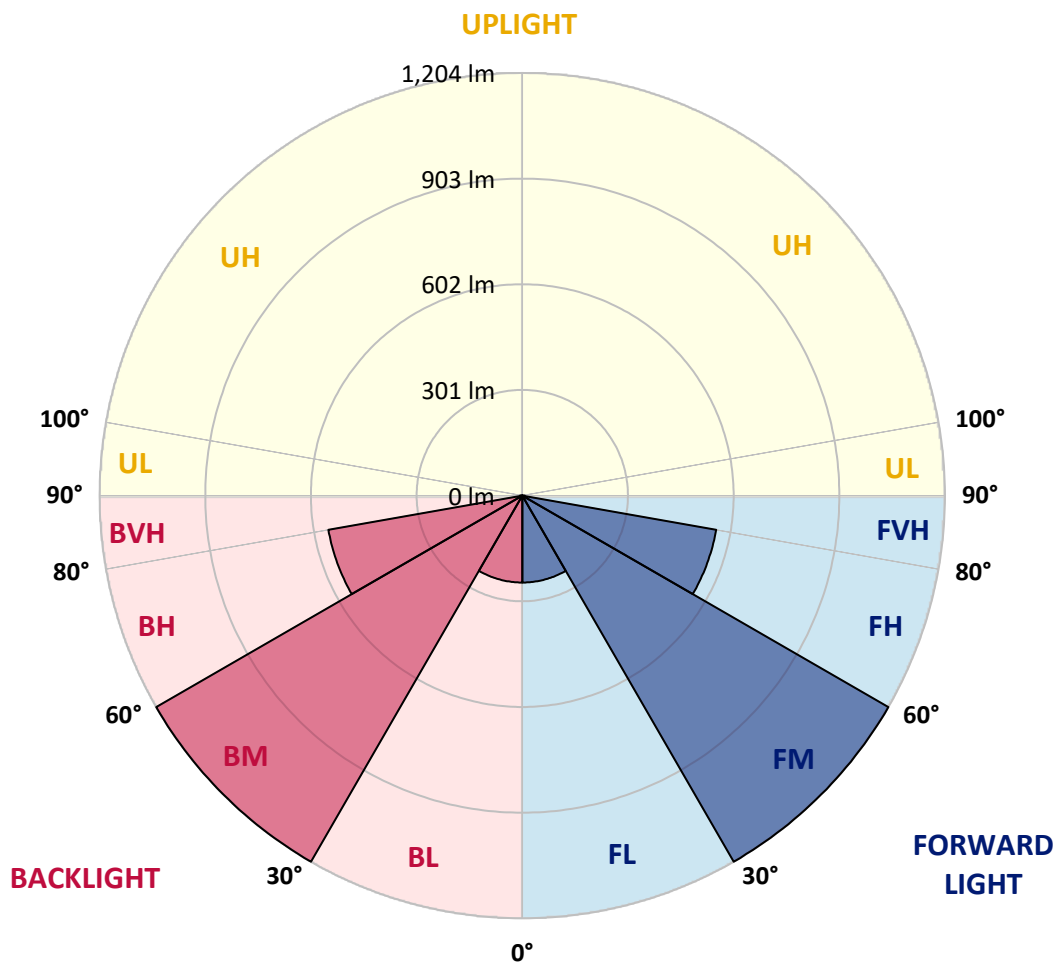
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	247.5	6.1			
FM (30°-60°)	1204.3	29.8			
FH (60°-80°)	560.9	13.9			G0/660
FVH (80°-90°)	6.8	0.2			G0/10
BL (0°-30°)	247.5	6.1	B1/500		
BM (30°-60°)	1204.3	29.8	B2/2500		
BH (60°-80°)	560.9	13.9	B2/1000		G0/660
BVH (80°-90°)	6.8	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2
2.5°	490.1	491.2	490.3	490.1	489.9	489.9	489.9	490.1	491.0	491.6	491.2
5°	496.3	497.2	496.7	496.5	496.3	496.5	496.1	495.9	496.5	496.5	496.3
7.5°	504.0	505.1	504.7	505.1	505.3	505.5	504.4	503.6	503.4	504.0	503.6
10°	514.5	515.3	515.6	515.8	516.2	516.0	514.7	513.2	513.0	512.8	512.6
12.5°	526.3	526.9	527.1	528.0	528.6	528.8	527.3	526.0	523.9	524.3	523.5
15°	539.5	540.8	540.6	541.9	543.6	544.0	542.5	540.4	538.5	537.4	536.7
17.5°	555.8	556.6	556.2	557.5	559.6	560.7	559.4	556.6	554.7	552.4	551.1
20°	575.0	576.5	577.0	577.0	578.9	580.0	578.0	577.2	574.2	572.5	571.4
22.5°	596.9	597.5	598.8	600.1	602.0	601.6	600.9	599.6	596.9	595.4	593.6
25°	621.5	622.1	625.3	628.1	628.7	628.3	627.4	626.8	624.2	620.8	619.5
27.5°	650.1	651.4	655.7	658.3	658.3	658.5	656.8	658.9	653.3	649.3	648.8
30°	686.1	686.9	690.6	693.1	691.8	690.8	690.3	692.5	686.5	679.2	677.5
32.5°	721.6	724.6	727.8	733.3	728.8	726.9	726.5	728.0	721.1	713.0	710.7
35°	759.7	761.8	767.8	772.5	768.4	763.9	765.9	770.6	762.4	751.5	751.1
37.5°	801.8	803.7	811.4	816.3	813.3	805.6	808.9	814.4	806.3	792.8	790.0
40°	845.7	849.7	859.3	864.5	859.6	849.3	855.3	861.3	854.0	838.4	832.2
42.5°	894.9	901.3	915.2	917.7	908.3	894.4	904.9	914.5	909.4	891.4	889.1
45°	952.4	956.3	973.4	978.9	965.9	948.6	961.6	979.1	975.3	954.5	950.0
47.5°	1016.8	1020.4	1038.2	1046.5	1030.1	1006.7	1030.3	1053.2	1050.8	1028.6	1026.4
50°	1093.0	1093.8	1118.4	1127.8	1111.3	1091.2	1112.2	1140.7	1131.2	1102.8	1102.4
52.5°	1176.4	1177.5	1208.5	1226.7	1217.5	1194.8	1219.6	1236.9	1213.0	1175.7	1173.0
55°	1248.7	1254.0	1296.4	1344.7	1357.4	1340.9	1348.4	1340.3	1281.2	1229.0	1220.9
57.5°	1278.2	1288.7	1353.1	1443.4	1525.5	1549.9	1492.1	1414.7	1308.4	1234.6	1226.7
60°	1206.1	1217.5	1317.4	1488.7	1698.4	1804.3	1641.9	1427.3	1246.6	1142.8	1130.4
62.5°	965.9	969.1	1116.1	1382.0	1799.1	2073.4	1705.0	1319.7	1066.6	925.7	920.7
64°	695.0	728.0	883.7	1211.7	1755.1	2175.8	1668.6	1168.9	866.4	723.7	700.6
65°	519.8	528.8	712.4	1034.8	1677.4	2168.1	1598.0	1024.7	717.5	553.9	528.2
67.5°	196.4	197.5	262.9	515.8	1194.1	1865.4	1219.6	557.5	302.3	218.6	210.7
70°	81.5	83.0	96.5	173.5	513.2	1197.8	588.1	201.1	110.6	89.6	88.4
72.5°	59.7	60.5	64.6	77.0	157.9	491.8	193.4	85.4	64.8	58.0	57.3
75°	46.8	47.3	50.3	56.7	73.6	136.3	80.4	58.6	49.4	44.5	44.1
77.5°	35.7	36.8	38.9	43.2	49.4	64.6	53.3	43.9	38.1	34.0	33.4
80°	24.6	25.9	29.9	31.7	33.2	41.9	36.4	33.2	29.7	24.8	23.3
82.5°	15.2	16.0	20.1	21.6	21.0	23.5	23.3	23.7	21.2	15.4	14.3
85°	7.9	8.3	10.9	11.3	10.5	9.6	12.0	13.9	13.0	8.8	8.6
87.5°	1.7	1.9	2.4	2.1	2.4	2.4	3.0	4.5	4.7	3.0	2.8
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)