

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: P450336

Luminaire Tested: **GALN-SA1A-827-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450336
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-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 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: 3550 lumens
Efficiency: N/A
Efficacy: 107.6 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

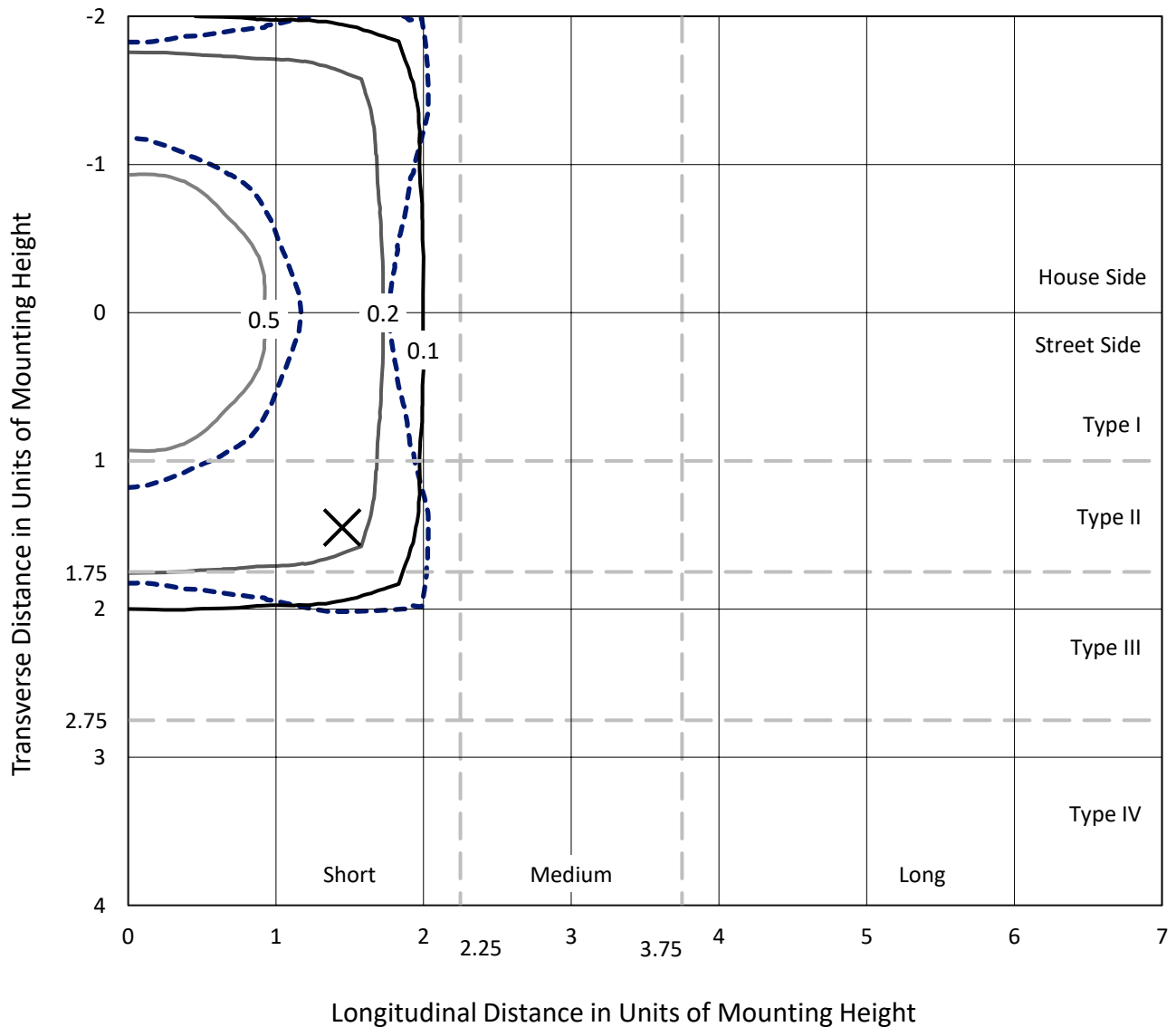
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

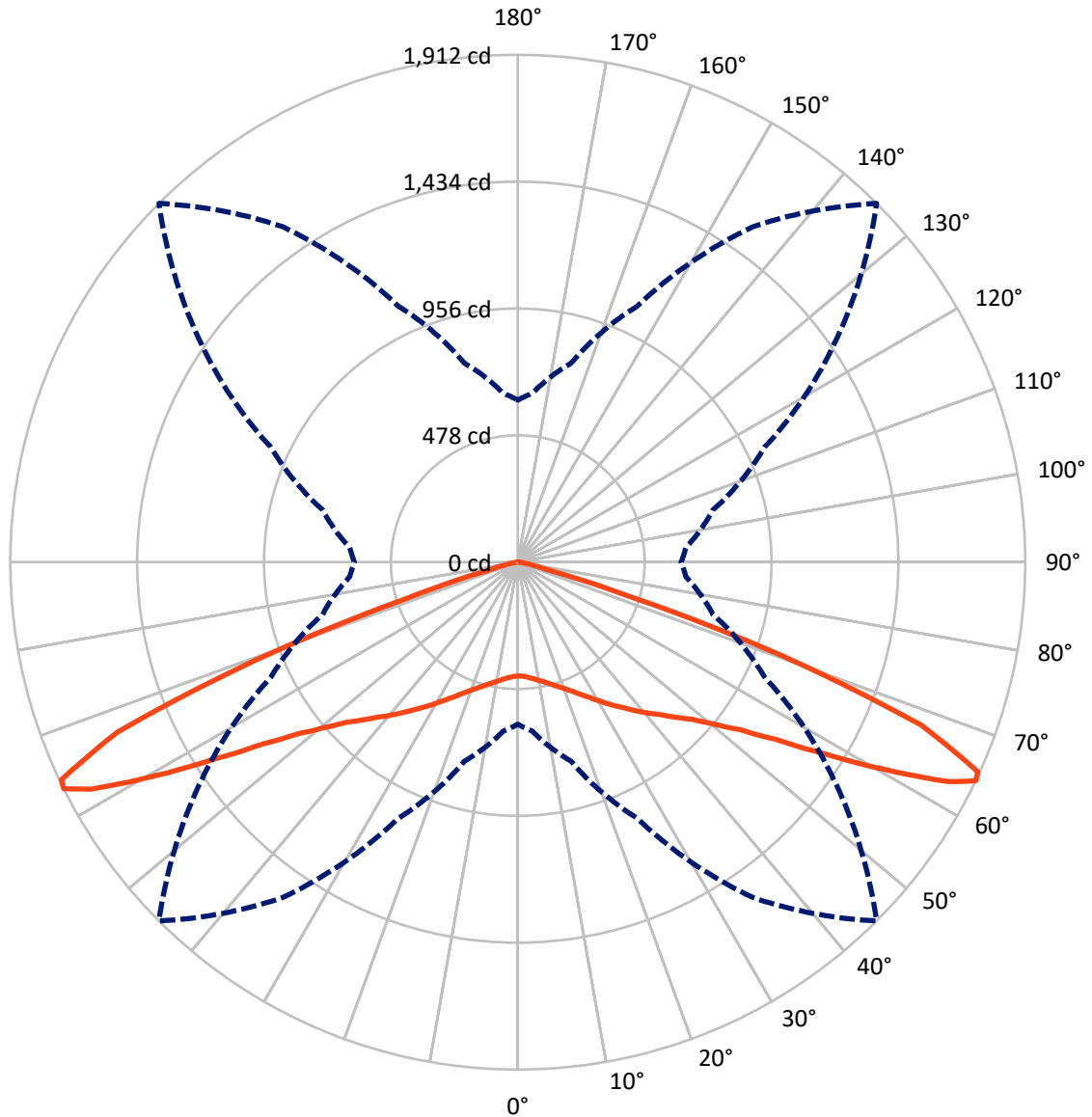
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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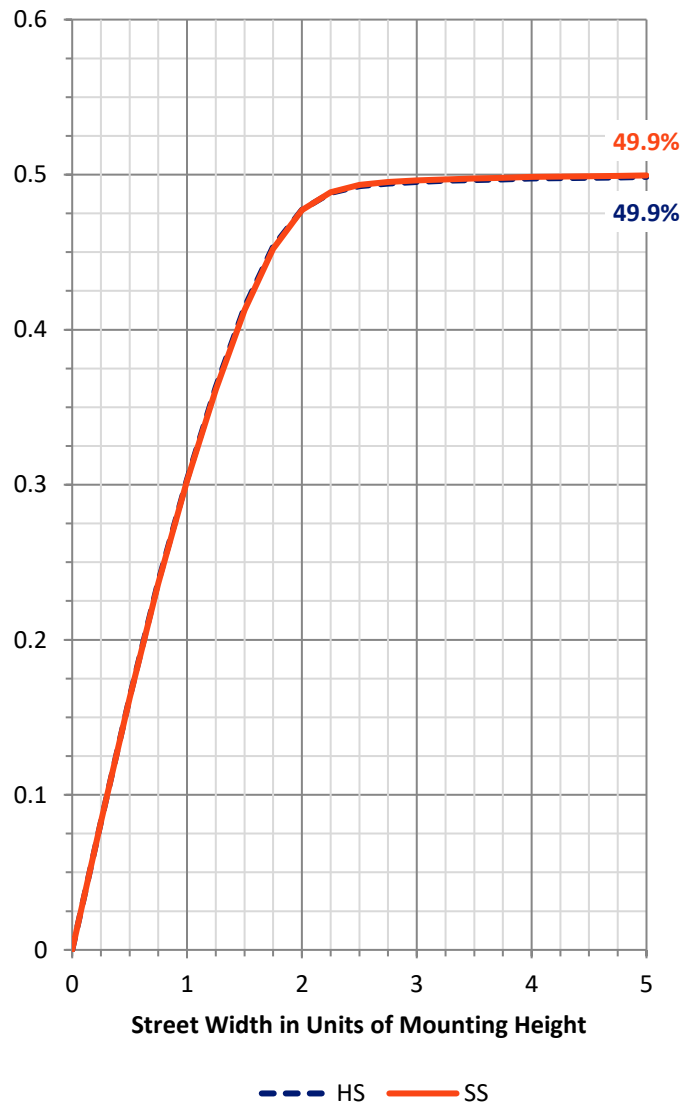
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1775.0	0.0	1775.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1775.0	0.0	1775.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3550.0	0.0	3550.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	1.2
10°-20°	136.0	3.8
20°-30°	257.0	7.2
30°-40°	425.5	12.0
40°-50°	664.3	18.7
50°-60°	1027.0	28.9
60°-70°	885.6	24.9
70°-80°	100.4	2.8
80°-90°	12.0	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°	3550.0	100.0
0°-180°	3550.0	100.0



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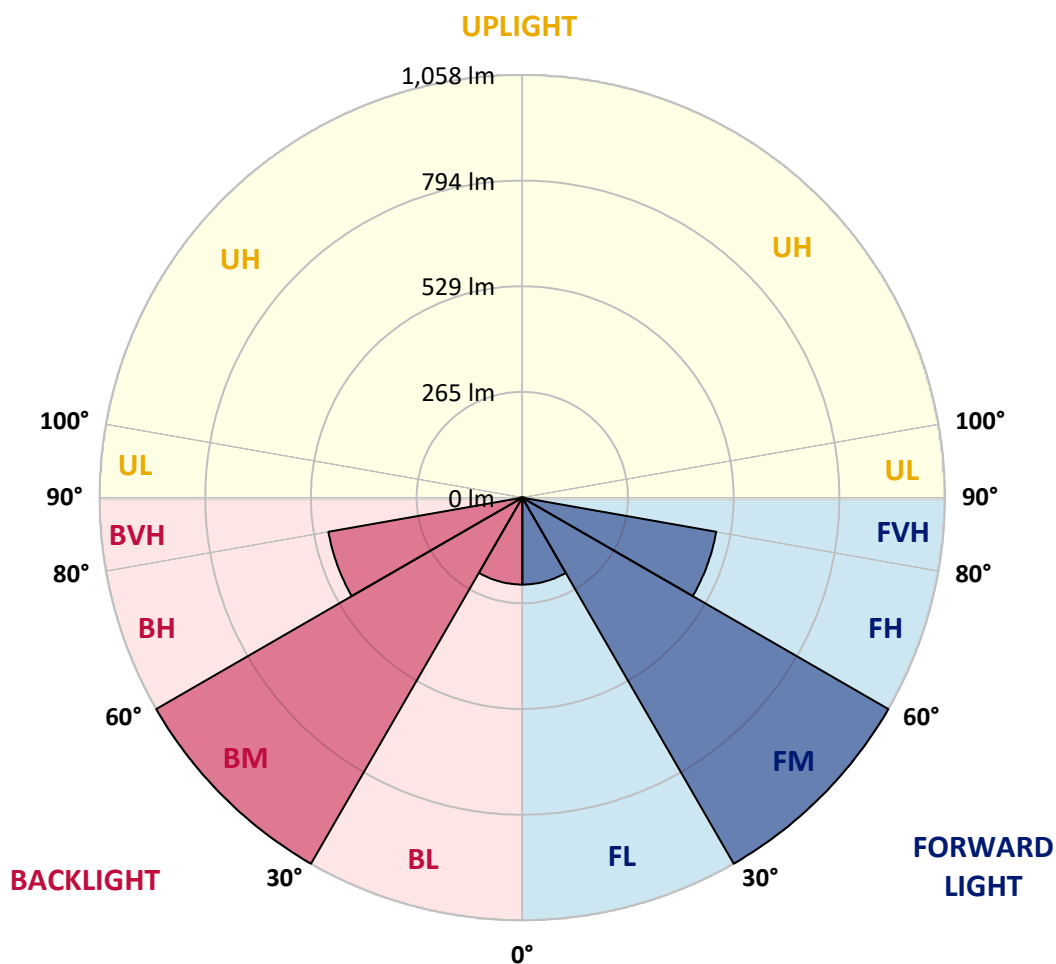
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.5	6.1			
FM (30°-60°)	1058.5	29.8			
FH (60°-80°)	493.0	13.9			G0/660
FVH (80°-90°)	6.0	0.2			G0/10
BL (0°-30°)	217.5	6.1	B1/500		
BM (30°-60°)	1058.5	29.8	B2/2500		
BH (60°-80°)	493.0	13.9	B1/500		G0/660
BVH (80°-90°)	6.0	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°	429.1	429.1	429.1	429.1	429.1	429.1	429.1	429.1	429.1	429.1	429.1
2.5°	430.8	431.7	431.0	430.8	430.6	430.6	430.6	430.8	431.5	432.1	431.7
5°	436.2	437.0	436.6	436.4	436.2	436.4	436.0	435.8	436.4	436.4	436.2
7.5°	443.0	443.9	443.6	443.9	444.1	444.3	443.4	442.6	442.4	443.0	442.6
10°	452.2	453.0	453.1	453.3	453.7	453.5	452.4	451.1	450.9	450.7	450.5
12.5°	462.5	463.1	463.3	464.1	464.6	464.8	463.5	462.4	460.5	460.9	460.1
15°	474.2	475.3	475.1	476.3	477.8	478.2	476.8	475.0	473.3	472.3	471.8
17.5°	488.5	489.2	488.9	490.0	491.9	492.8	491.7	489.2	487.6	485.5	484.4
20°	505.4	506.7	507.1	507.1	508.8	509.7	508.0	507.3	504.7	503.2	502.2
22.5°	524.6	525.2	526.3	527.4	529.1	528.7	528.2	527.0	524.6	523.3	521.8
25°	546.2	546.8	549.6	552.0	552.6	552.2	551.5	550.9	548.7	545.7	544.5
27.5°	571.4	572.5	576.3	578.6	578.6	578.7	577.2	579.1	574.2	570.7	570.3
30°	603.0	603.8	607.0	609.2	608.1	607.1	606.8	608.6	603.4	597.0	595.5
32.5°	634.2	636.8	639.7	644.6	640.6	638.9	638.5	639.9	633.8	626.7	624.6
35°	667.7	669.6	674.8	679.0	675.4	671.4	673.1	677.3	670.1	660.5	660.2
37.5°	704.7	706.4	713.2	717.5	714.9	708.1	710.9	715.8	708.7	696.8	694.4
40°	743.3	746.8	755.3	759.8	755.5	746.5	751.7	757.0	750.6	736.9	731.4
42.5°	786.5	792.2	804.4	806.6	798.4	786.1	795.4	803.8	799.3	783.5	781.4
45°	837.1	840.5	855.5	860.4	848.9	833.7	845.2	860.6	857.2	839.0	835.0
47.5°	893.7	896.9	912.5	919.8	905.3	884.9	905.5	925.7	923.6	904.0	902.2
50°	960.6	961.4	983.0	991.3	976.8	959.1	977.6	1002.6	994.3	969.3	968.9
52.5°	1034.0	1034.9	1062.2	1078.1	1070.1	1050.1	1071.9	1087.2	1066.1	1033.4	1031.0
55°	1097.5	1102.2	1139.4	1181.9	1193.0	1178.6	1185.1	1178.0	1126.1	1080.2	1073.1
57.5°	1123.5	1132.7	1189.3	1268.6	1340.8	1362.3	1311.5	1243.4	1150.0	1085.1	1078.1
60°	1060.1	1070.1	1157.9	1308.5	1492.7	1585.8	1443.1	1254.5	1095.6	1004.4	993.5
62.5°	848.9	851.8	980.9	1214.7	1581.3	1822.4	1498.6	1159.9	937.5	813.6	809.3
64°	610.9	639.9	776.7	1065.0	1542.6	1912.4	1466.6	1027.4	761.5	636.1	615.8
65°	456.9	464.8	626.1	909.5	1474.3	1905.7	1404.6	900.6	630.6	486.8	464.2
67.5°	172.6	173.5	231.1	453.3	1049.6	1639.6	1071.9	490.0	265.7	192.2	185.2
70°	71.6	73.0	84.8	152.5	451.1	1052.8	516.9	176.7	97.2	78.8	77.7
72.5°	52.5	53.2	56.8	67.7	138.8	432.3	170.0	75.0	57.0	51.0	50.4
75°	41.2	41.6	44.2	49.8	64.7	119.8	70.7	51.5	43.4	39.1	38.7
77.5°	31.4	32.3	34.2	38.0	43.4	56.8	46.8	38.5	33.5	29.9	29.3
80°	21.6	22.8	26.3	27.8	29.1	36.9	32.0	29.1	26.1	21.8	20.5
82.5°	13.3	14.1	17.7	19.0	18.4	20.7	20.5	20.9	18.6	13.5	12.6
85°	7.0	7.3	9.6	10.0	9.2	8.5	10.5	12.2	11.5	7.7	7.5
87.5°	1.5	1.7	2.1	1.9	2.1	2.1	2.6	3.9	4.1	2.6	2.4
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)