

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: P651653

Luminaire Tested: **GALN-SA1A-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2335.4 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B1 - U0 - G0

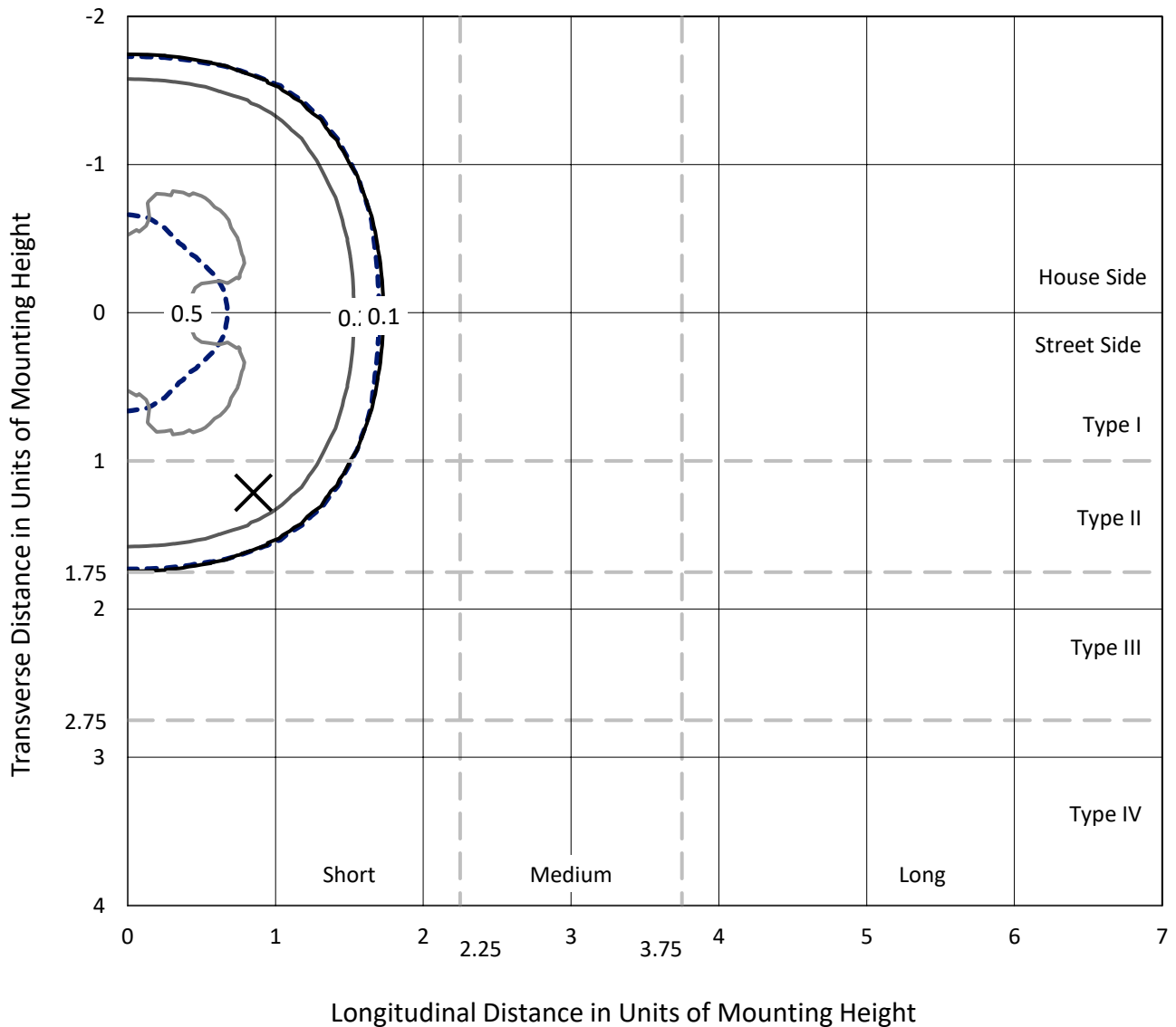
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

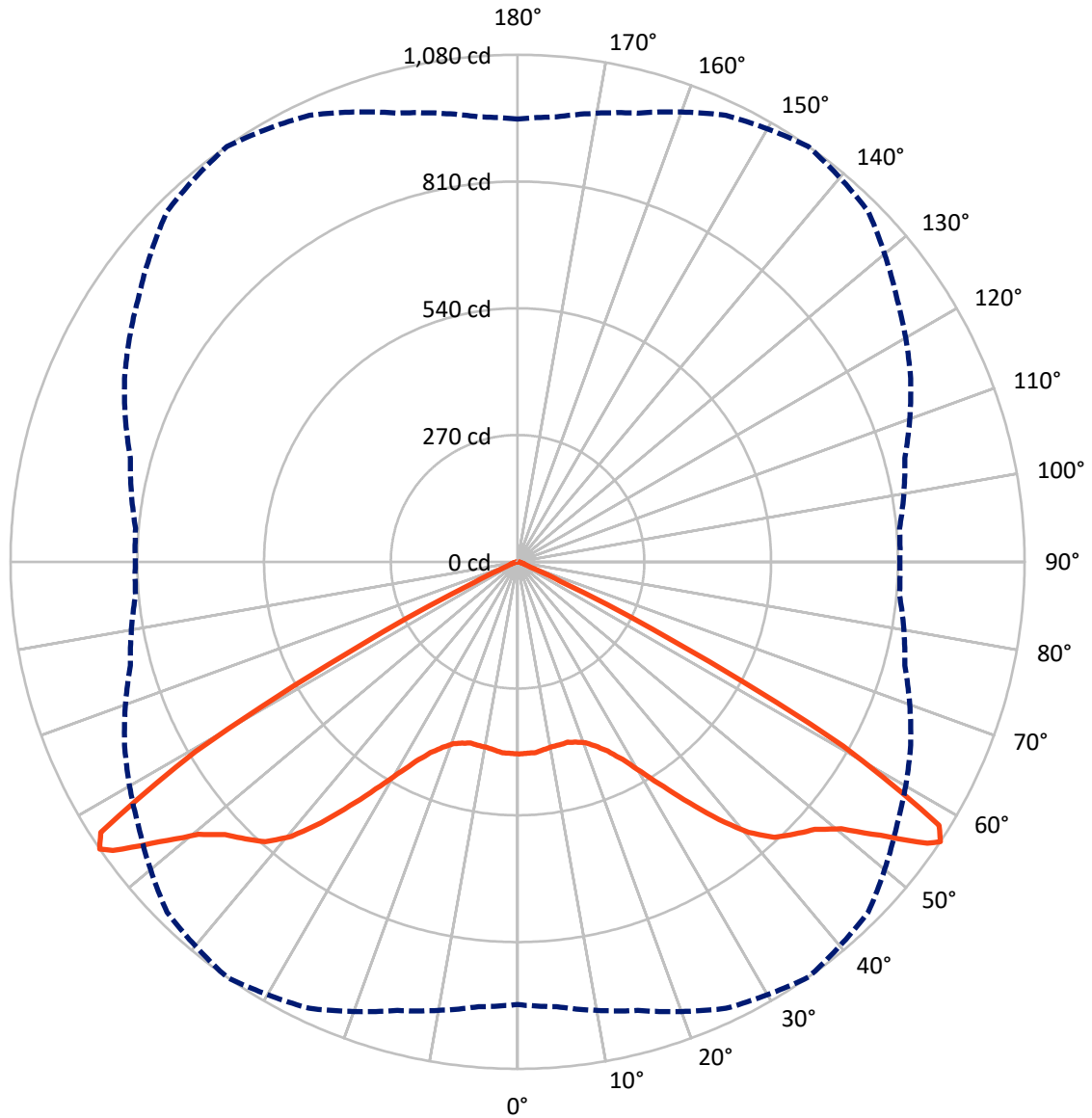
× Max cd
 - - - 1/2 Max cd



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 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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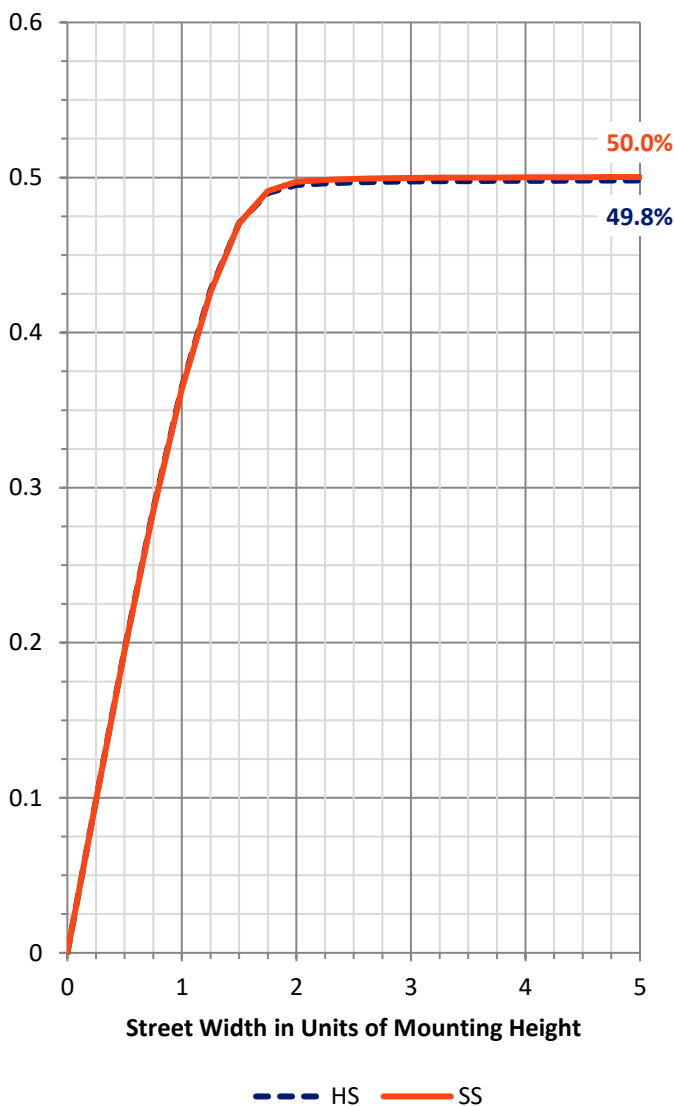
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1167.7	0.0	1167.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1167.7	0.0	1167.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	2335.4	0.0	2335.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	1.6
10°-20°	112.3	4.8
20°-30°	203.3	8.7
30°-40°	377.1	16.1
40°-50°	618.9	26.5
50°-60°	797.3	34.1
60°-70°	175.7	7.5
70°-80°	10.2	0.4
80°-90°	2.1	0.1
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°	2335.4	100.0
0°-180°	2335.4	100.0

Coefficient of Utilization



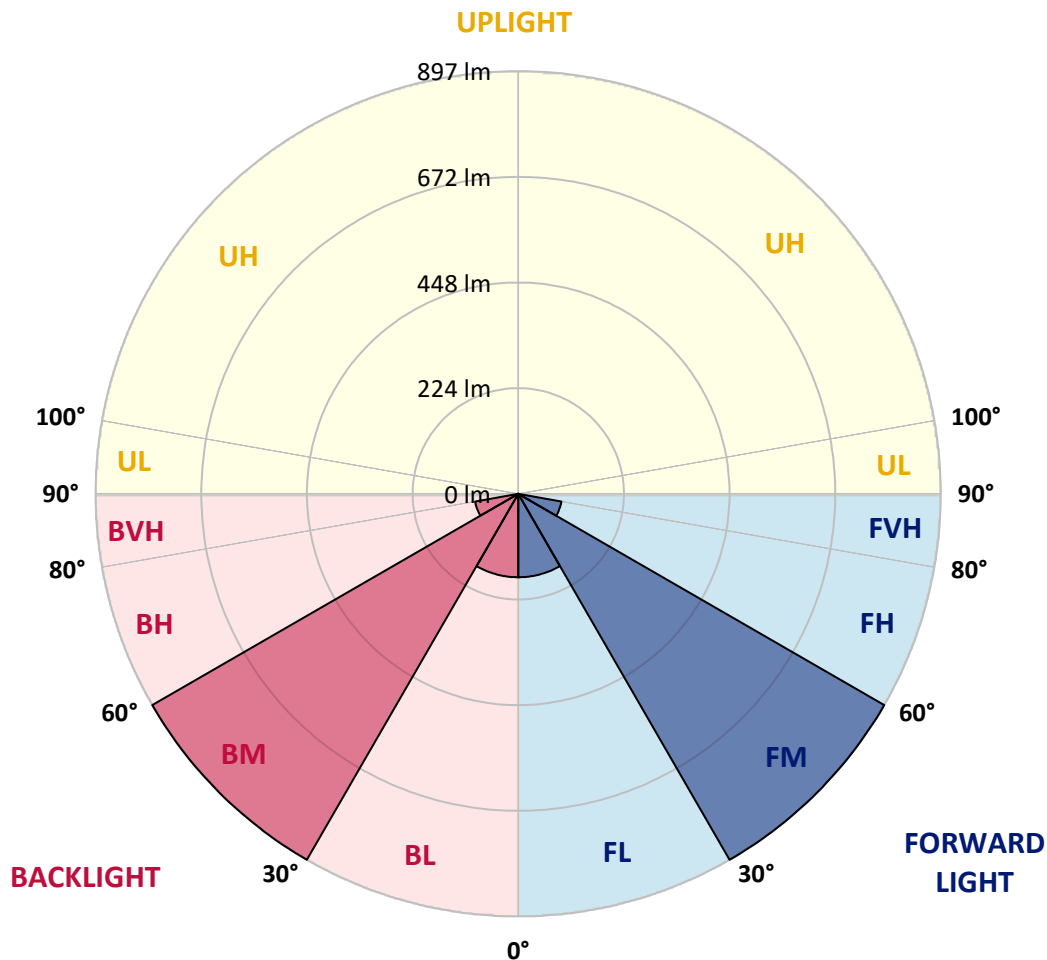
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	177.0	7.6			
FM (30°-60°)	896.7	38.4			
FH (60°-80°)	93.0	4.0			G0/660
FVH (80°-90°)	1.1	0.0			G0/10
BL (0°-30°)	177.0	7.6	B1/500		
BM (30°-60°)	896.7	38.4	B1/1000		
BH (60°-80°)	93.0	4.0	B0/110		G0/660
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	409.2	409.2	409.2	409.2	409.2	409.2	409.2	409.2	409.2	409.2	409.2
2.5°	410.1	410.1	410.5	410.9	408.0	406.7	407.1	406.3	405.9	407.1	407.1
5°	408.8	408.8	407.5	408.0	408.0	404.2	404.2	405.0	405.0	402.4	401.6
7.5°	405.4	404.6	402.8	405.0	403.7	403.7	400.7	398.6	397.8	399.5	397.8
10°	398.2	398.6	400.3	401.2	400.3	402.8	397.8	394.8	391.9	390.6	390.6
12.5°	394.8	397.4	394.8	397.0	399.9	397.8	394.8	392.7	388.5	386.8	386.8
15°	394.4	396.1	397.0	399.9	398.6	399.5	393.6	391.1	384.7	381.7	380.5
17.5°	394.0	396.1	397.4	402.8	403.7	404.2	399.5	391.9	386.4	383.4	380.5
20°	398.6	399.5	402.0	407.5	410.9	416.8	408.4	400.3	388.5	385.1	383.8
22.5°	404.6	408.8	411.3	417.3	426.1	431.3	420.2	410.1	397.8	393.6	388.5
25°	423.6	422.8	427.0	439.3	446.5	450.3	441.4	426.6	410.5	405.4	406.3
27.5°	447.3	448.2	452.0	465.5	476.1	482.0	471.5	452.0	436.3	427.8	427.0
30°	478.2	477.4	481.6	499.8	518.8	527.7	509.1	486.3	471.0	460.0	462.6
32.5°	510.8	511.2	523.0	539.6	570.5	587.8	557.8	529.8	507.0	499.4	495.5
35°	559.0	561.1	570.5	595.8	630.2	652.5	619.6	586.1	559.9	545.9	547.6
37.5°	618.7	616.6	632.3	659.8	695.8	712.2	684.3	646.2	619.6	610.2	616.2
40°	682.2	684.3	692.3	717.3	757.5	768.5	727.0	706.3	683.1	678.4	685.6
42.5°	745.6	744.4	750.3	772.7	802.0	794.3	769.8	757.5	741.0	731.7	741.4
45°	792.2	790.1	801.1	816.4	826.9	812.5	801.6	797.3	788.9	778.7	787.5
47.5°	837.5	835.8	846.4	850.6	851.4	832.4	834.5	842.2	821.0	799.8	810.0
50°	876.0	873.0	886.2	895.5	893.3	862.9	870.5	862.9	829.9	804.9	801.1
52.5°	940.3	941.6	955.5	972.4	967.4	942.0	931.0	896.3	854.0	831.6	818.5
55°	980.9	974.6	998.7	1052.4	1058.4	1032.2	983.5	932.2	868.8	841.3	837.9
56°	942.8	950.9	989.0	1049.1	1079.6	1055.5	984.7	923.4	853.5	816.4	813.8
57.5°	846.0	841.8	893.3	975.5	1058.4	1048.2	950.1	859.9	778.7	736.8	731.7
60°	526.5	538.7	584.0	685.6	796.4	801.6	704.2	626.7	531.9	494.7	503.6
62.5°	206.1	195.5	223.9	299.6	375.8	392.7	355.9	295.8	242.9	206.1	203.5
65°	47.9	46.6	52.5	72.3	101.2	117.2	111.3	80.0	58.8	55.8	51.6
67.5°	27.1	27.1	25.8	25.8	28.3	30.0	28.8	28.3	29.6	30.9	30.4
70°	19.0	18.6	17.7	18.2	17.3	17.3	18.6	20.8	22.5	22.5	22.9
72.5°	11.4	11.4	11.4	12.7	12.7	12.7	14.0	15.6	16.1	15.6	15.2
75°	5.0	5.0	5.9	7.2	8.1	8.5	9.8	10.6	11.4	10.6	9.8
77.5°	1.3	1.3	2.1	2.9	3.8	4.6	6.3	7.7	8.1	7.7	6.3
80°	0.4	0.4	0.8	2.1	3.8	4.6	6.3	6.8	7.2	6.3	5.0
82.5°	0.4	0.4	0.8	2.1	2.9	3.8	5.0	5.9	6.3	5.5	5.0
85°	0.0	0.4	0.8	1.7	2.5	3.4	3.4	2.5	2.1	1.3	1.7
87.5°	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)