

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: P532747

Luminaire Tested: **GALN-SA8A-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18649 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

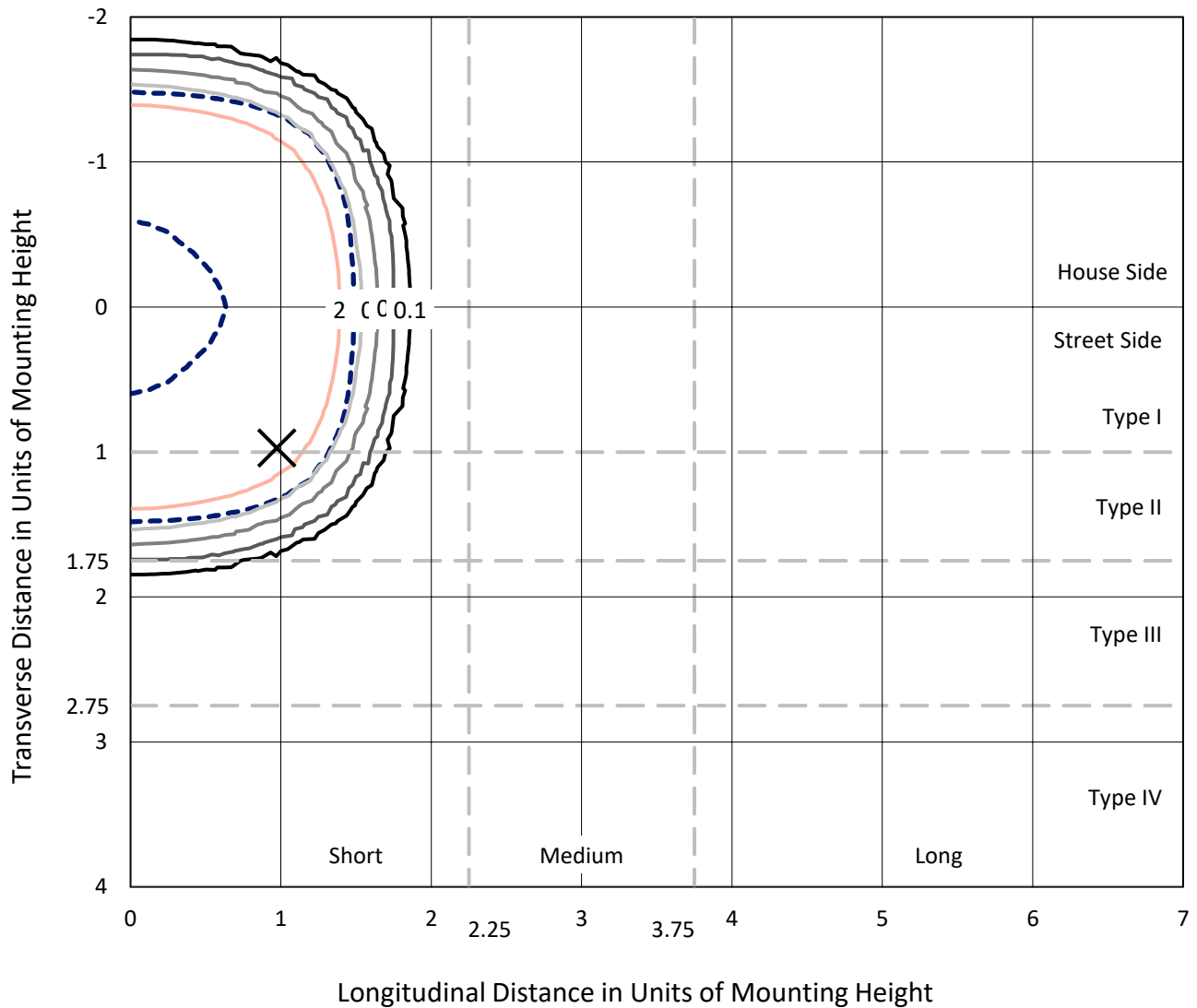
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

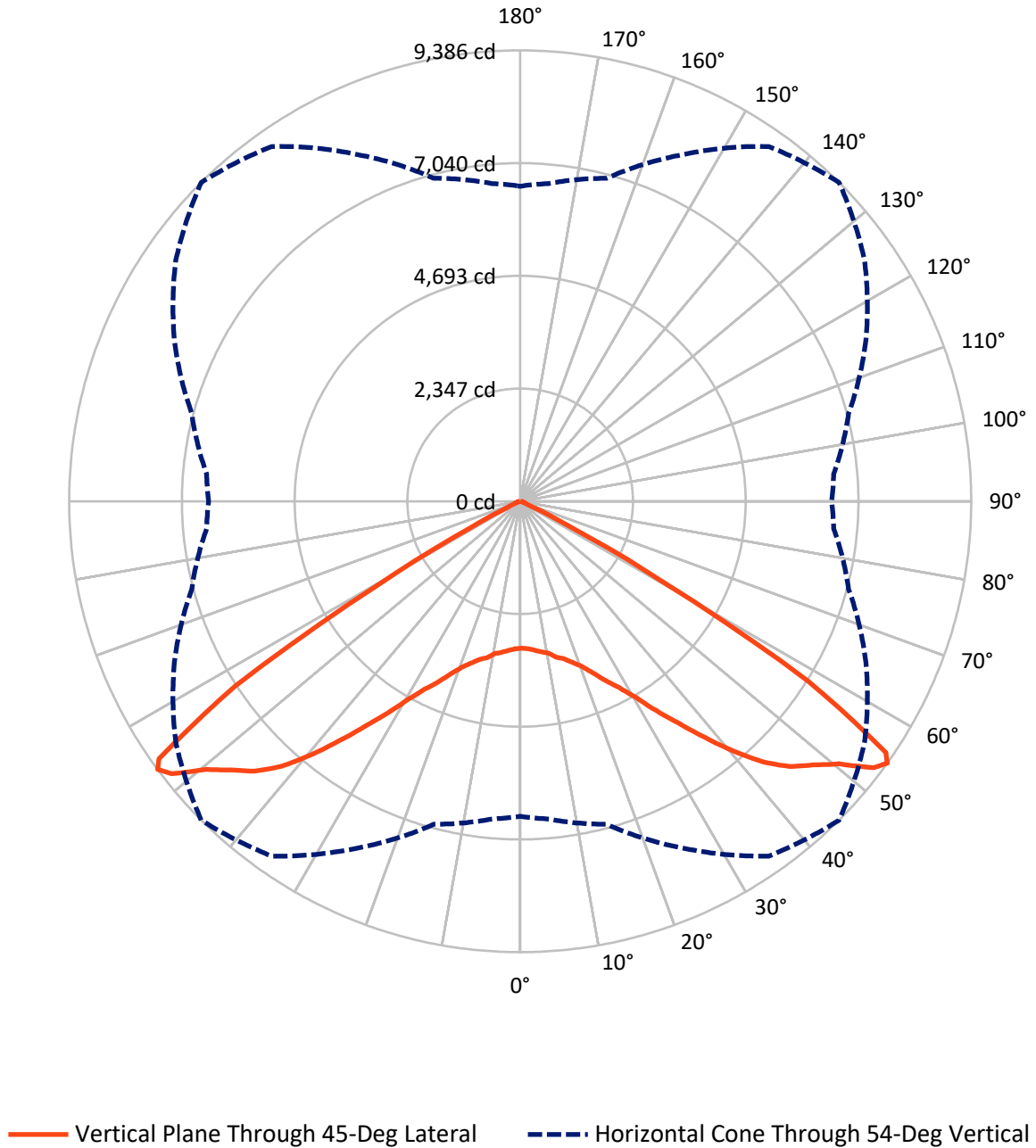
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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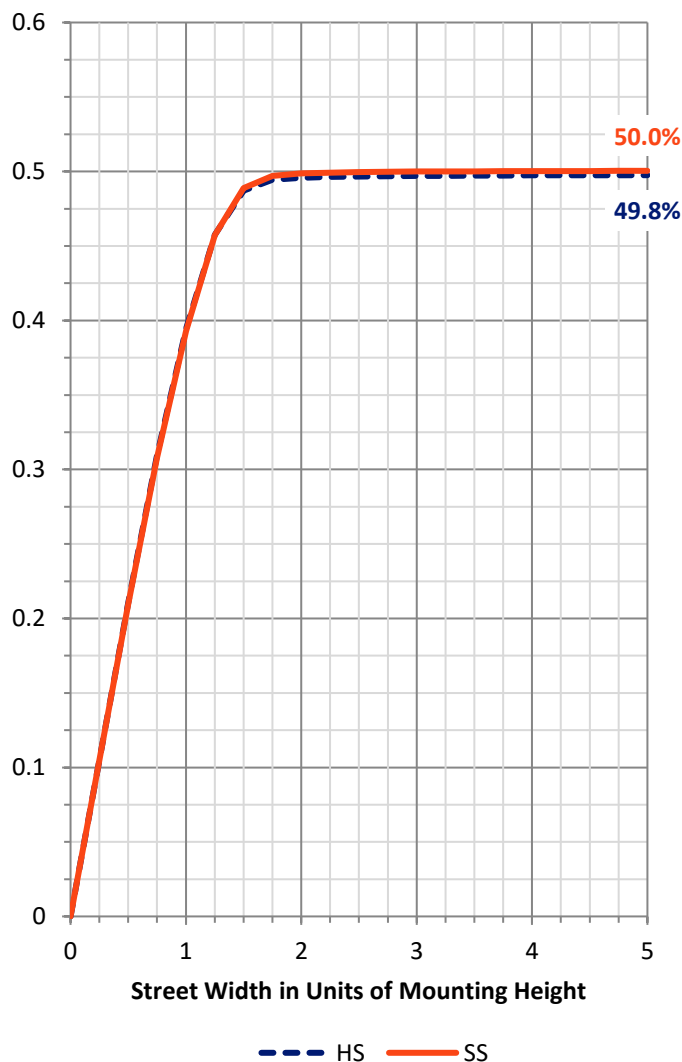
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9324.5	0.0	9324.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9324.5	0.0	9324.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18649.0	0.0	18649.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.3	1.6
10°-20°	969.2	5.2
20°-30°	1899.6	10.2
30°-40°	3415.9	18.3
40°-50°	5847.4	31.4
50°-60°	5657.9	30.3
60°-70°	484.3	2.6
70°-80°	57.4	0.3
80°-90°	18.0	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°	18649.0	100.0
0°-180°	18649.0	100.0

Coefficient of Utilization



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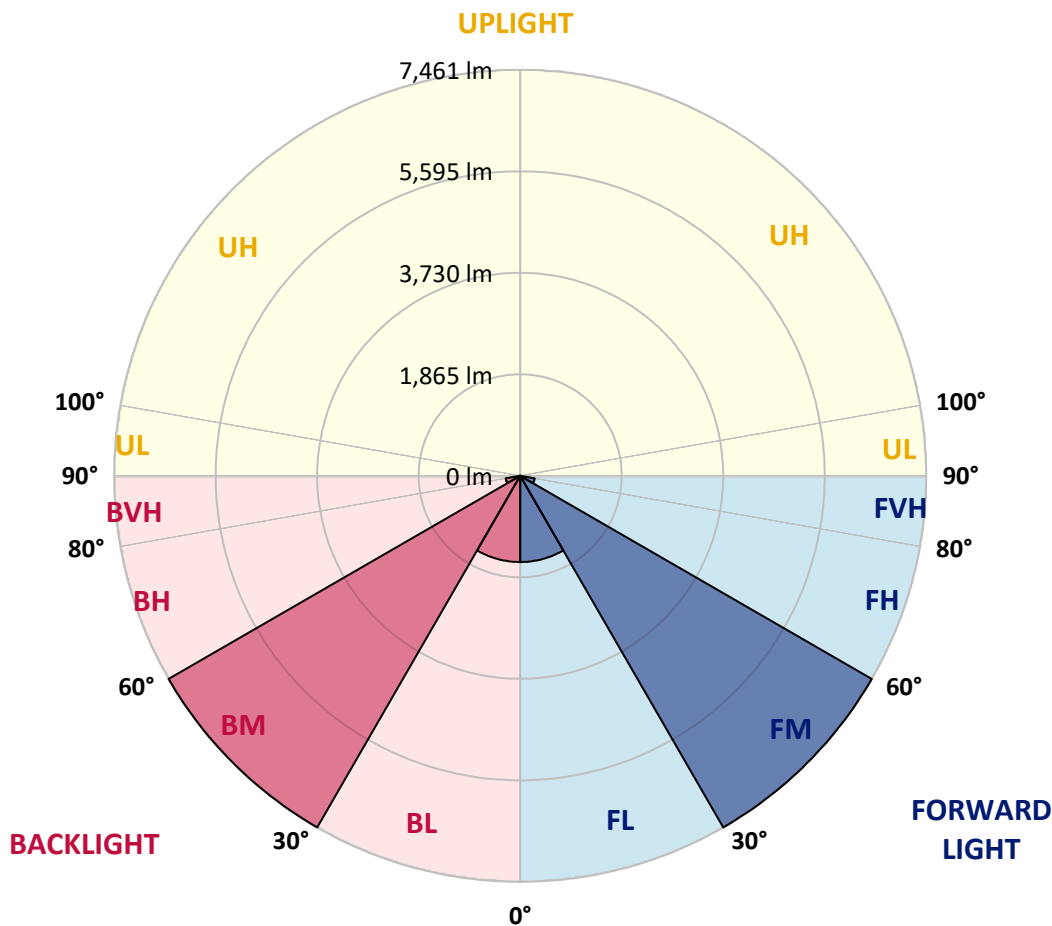
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1584.1	8.5			
FM (30°-60°)	7460.6	40.0			
FH (60°-80°)	270.9	1.5			G0/660
FVH (80°-90°)	9.0	0.0			G0/10
BL (0°-30°)	1584.1	8.5	B3/2500		
BM (30°-60°)	7460.6	40.0	B4/8500		
BH (60°-80°)	270.9	1.5	B1/500		G0/660
BVH (80°-90°)	9.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3057.9	3057.9	3057.9	3057.9	3057.9	3057.9	3057.9	3057.9	3057.9	3057.9	3057.9
2.5°	3072.6	3090.4	3078.5	3087.4	3087.4	3072.6	3081.5	3046.0	3069.7	3051.9	3054.9
5°	3119.9	3116.9	3116.9	3119.9	3108.1	3114.0	3102.2	3090.4	3081.5	3069.7	3105.1
7.5°	3179.0	3179.0	3158.3	3164.2	3158.3	3167.2	3143.5	3119.9	3111.0	3102.2	3096.3
10°	3235.1	3229.2	3220.3	3246.9	3226.3	3214.4	3202.6	3187.9	3155.4	3143.5	3131.7
12.5°	3317.8	3314.9	3303.1	3329.7	3317.8	3329.7	3285.3	3246.9	3241.0	3202.6	3223.3
15°	3415.3	3441.9	3421.3	3421.3	3415.3	3400.6	3382.8	3365.1	3311.9	3297.2	3300.1
17.5°	3542.4	3533.5	3536.5	3536.5	3566.0	3527.6	3492.2	3447.8	3421.3	3412.4	3382.8
20°	3663.5	3675.3	3672.4	3693.1	3710.8	3669.4	3631.0	3625.1	3551.2	3563.1	3521.7
22.5°	3876.2	3867.4	3882.1	3896.9	3885.1	3879.2	3843.7	3799.4	3734.4	3704.9	3699.0
25°	4100.8	4086.0	4059.4	4094.9	4112.6	4139.2	4071.2	4047.6	3947.1	3902.8	3905.8
27.5°	4292.8	4313.5	4343.0	4357.8	4402.1	4393.3	4346.0	4269.2	4192.4	4142.1	4109.6
30°	4555.8	4567.6	4617.8	4638.5	4715.3	4736.0	4662.1	4573.5	4437.6	4372.6	4334.2
32.5°	4798.0	4880.8	4877.8	4981.2	5105.3	5191.0	5058.0	4922.1	4786.2	4709.4	4641.4
35°	5191.0	5176.2	5261.9	5371.2	5572.1	5669.6	5524.8	5368.2	5161.4	5037.3	4984.2
37.5°	5557.3	5563.2	5678.5	5852.8	6083.2	6233.9	6106.8	5849.8	5637.1	5477.5	5403.7
40°	6089.1	6100.9	6219.1	6417.1	6677.1	6839.6	6691.8	6431.8	6148.2	6024.1	6024.1
42.5°	6712.5	6762.7	6839.6	7010.9	7244.3	7424.5	7291.6	7087.7	6801.1	6641.6	6665.2
45°	7353.6	7377.3	7427.5	7681.6	7790.9	7879.5	7755.4	7660.9	7468.8	7273.9	7241.4
47.5°	7953.4	7962.2	8110.0	8189.7	8275.4	8201.6	8281.3	8157.2	7941.6	7752.5	7714.1
50°	8219.3	8204.5	8414.3	8656.5	8721.5	8591.5	8523.6	8440.9	8112.9	7885.4	7785.0
52.5°	7445.2	7530.9	7920.9	8594.5	9102.7	9212.0	8816.1	8435.0	7823.4	7380.2	7312.3
54°	6558.9	6638.6	6960.7	7959.3	9017.0	9386.3	8748.1	7938.6	7075.9	6550.0	6482.1
55°	5681.4	5592.8	6177.8	7197.0	8615.2	9232.7	8479.3	7297.5	6310.7	5829.1	5734.6
57.5°	3075.6	3090.4	3583.7	4546.9	6053.7	7078.9	6251.6	4936.9	3728.5	3187.9	3140.6
60°	975.0	998.6	1214.3	1837.7	2892.4	3453.8	2960.4	1982.4	1370.9	1099.1	1054.7
62.5°	304.3	316.1	345.7	514.1	791.8	1131.6	886.3	531.8	395.9	363.4	369.3
65°	186.1	186.1	189.1	200.9	236.4	274.8	265.9	233.4	224.5	218.6	215.7
67.5°	121.1	118.2	124.1	133.0	138.9	141.8	150.7	159.5	156.6	150.7	150.7
70°	73.9	70.9	76.8	88.6	91.6	97.5	106.4	118.2	115.2	109.3	112.3
72.5°	41.4	41.4	44.3	53.2	62.0	68.0	76.8	85.7	88.6	85.7	85.7
75°	14.8	17.7	23.6	32.5	38.4	47.3	56.1	65.0	73.9	68.0	65.0
77.5°	5.9	5.9	11.8	20.7	29.5	38.4	53.2	62.0	68.0	62.0	56.1
80°	3.0	3.0	8.9	17.7	26.6	35.5	44.3	53.2	56.1	50.2	44.3
82.5°	3.0	3.0	8.9	17.7	26.6	32.5	47.3	53.2	59.1	53.2	44.3
85°	0.0	3.0	8.9	17.7	23.6	26.6	26.6	17.7	14.8	8.9	8.9
87.5°	0.0	0.0	3.0	0.0	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)