

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: P529445

Luminaire Tested: **GALN-SA4C-760-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529445
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-SA4C-760-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA 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: 19106 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

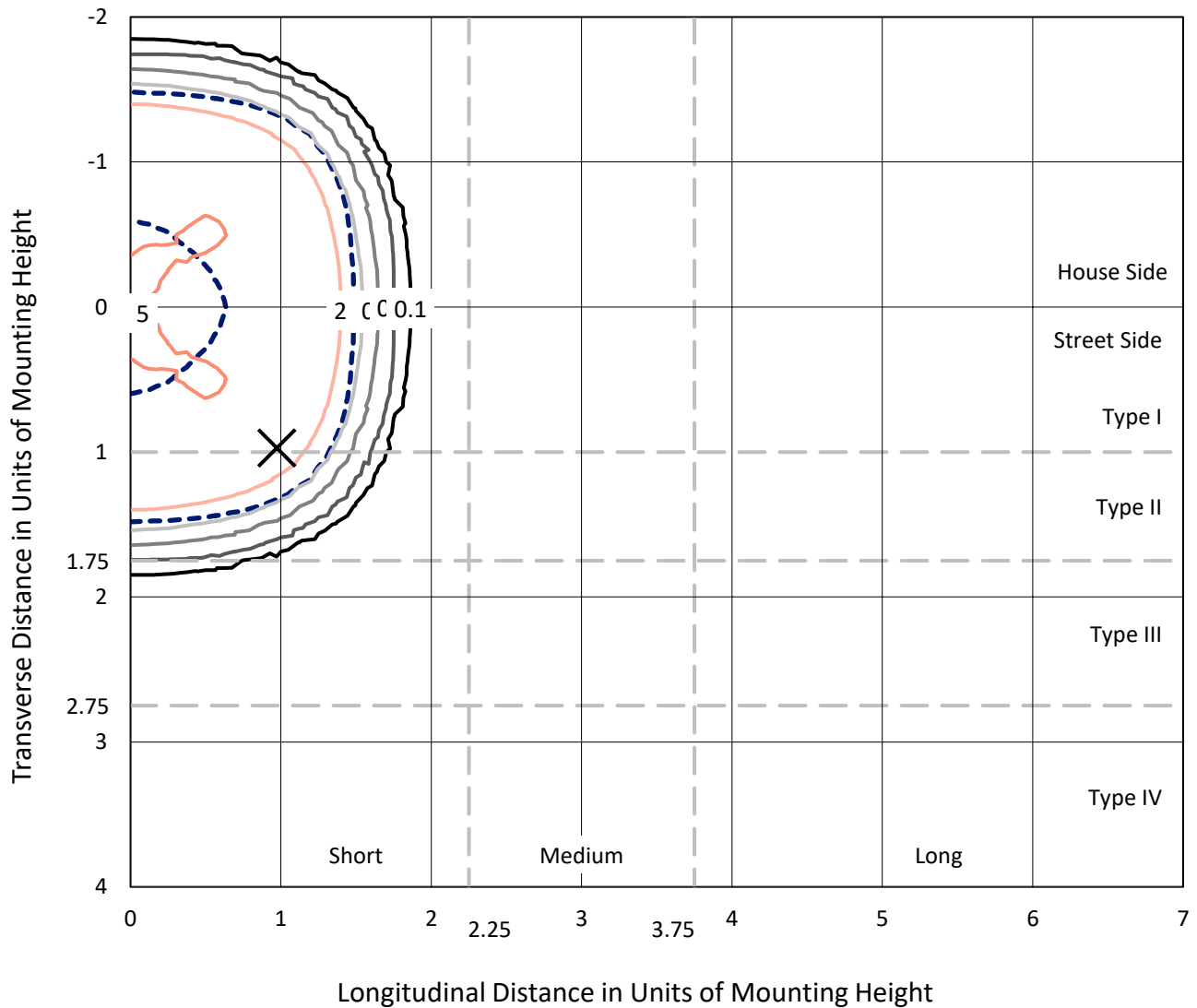
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

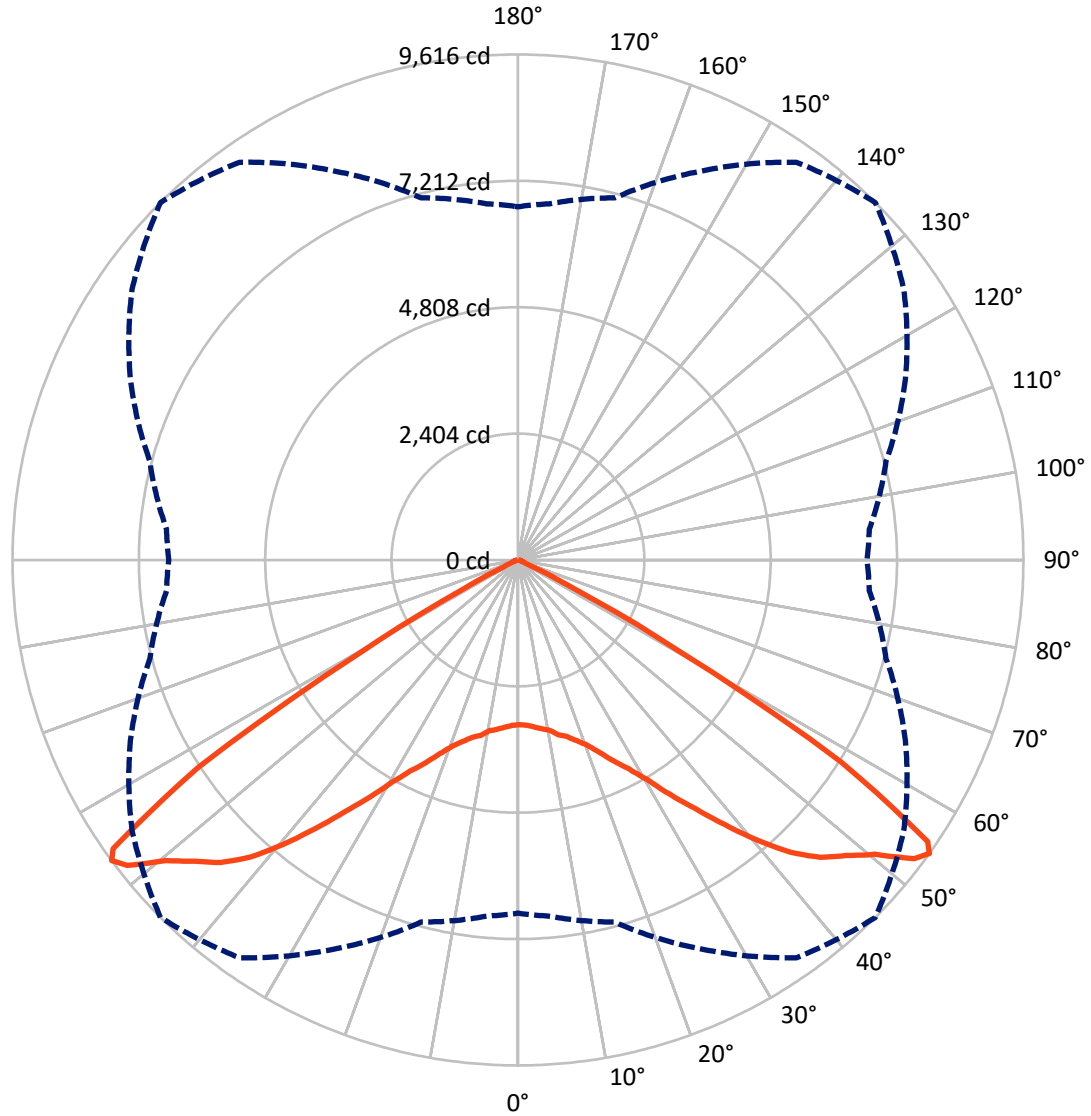
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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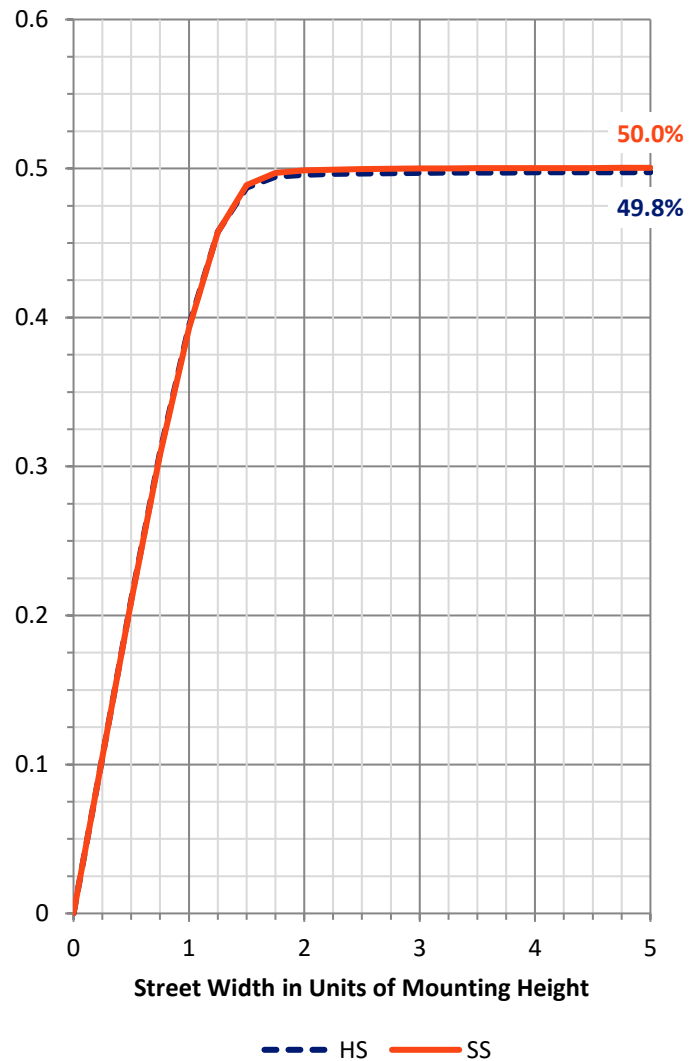
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9553.0	0.0	9553.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9553.0	0.0	9553.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19106.0	0.0	19106.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.6	1.6
10°-20°	993.0	5.2
20°-30°	1946.2	10.2
30°-40°	3499.6	18.3
40°-50°	5990.7	31.4
50°-60°	5796.5	30.3
60°-70°	496.2	2.6
70°-80°	58.8	0.3
80°-90°	18.4	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°	19106.0	100.0
0°-180°	19106.0	100.0



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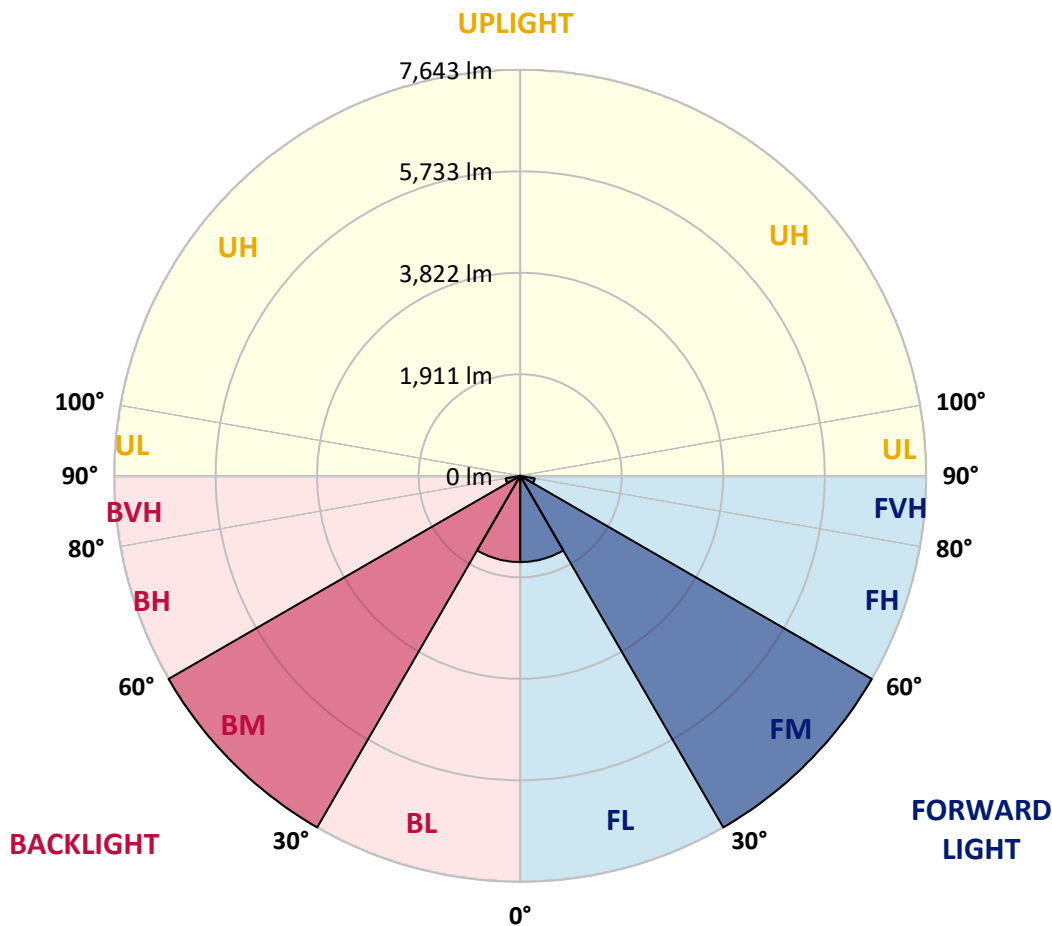
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1622.9	8.5			
FM (30°-60°)	7643.4	40.0			
FH (60°-80°)	277.5	1.5			G0/660
FVH (80°-90°)	9.2	0.0			G0/10
BL (0°-30°)	1622.9	8.5	B3/2500		
BM (30°-60°)	7643.4	40.0	B4/8500		
BH (60°-80°)	277.5	1.5	B1/500		G0/660
BVH (80°-90°)	9.2	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°	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8
2.5°	3147.9	3166.1	3154.0	3163.1	3163.1	3147.9	3157.0	3120.7	3144.9	3126.7	3129.8
5°	3196.4	3193.3	3193.3	3196.4	3184.2	3190.3	3178.2	3166.1	3157.0	3144.9	3181.2
7.5°	3256.9	3256.9	3235.7	3241.8	3235.7	3244.8	3220.6	3196.4	3187.3	3178.2	3172.1
10°	3314.4	3308.3	3299.3	3326.5	3305.3	3293.2	3281.1	3266.0	3232.7	3220.6	3208.5
12.5°	3399.2	3396.1	3384.0	3411.3	3399.2	3411.3	3365.9	3326.5	3320.5	3281.1	3302.3
15°	3499.0	3526.3	3505.1	3505.1	3499.0	3483.9	3465.7	3447.6	3393.1	3378.0	3381.0
17.5°	3629.2	3620.1	3623.1	3623.1	3653.4	3614.1	3577.7	3532.3	3505.1	3496.0	3465.7
20°	3753.3	3765.4	3762.4	3783.6	3801.7	3759.3	3720.0	3713.9	3638.3	3650.4	3608.0
22.5°	3971.2	3962.1	3977.3	3992.4	3980.3	3974.3	3937.9	3892.5	3825.9	3795.7	3789.6
25°	4201.3	4186.1	4158.9	4195.2	4213.4	4240.6	4171.0	4146.8	4043.9	3998.5	4001.5
27.5°	4398.0	4419.2	4449.5	4464.6	4510.0	4500.9	4452.5	4373.8	4295.1	4243.6	4210.3
30°	4667.4	4679.5	4731.0	4752.2	4830.9	4852.0	4776.4	4685.6	4546.3	4479.7	4440.4
32.5°	4915.6	5000.4	4997.3	5103.3	5230.4	5318.2	5182.0	5042.7	4903.5	4824.8	4755.2
35°	5318.2	5303.0	5390.8	5502.8	5708.6	5808.5	5660.2	5499.8	5287.9	5160.8	5106.3
37.5°	5693.5	5699.6	5817.6	5996.2	6232.3	6386.7	6256.5	5993.2	5775.2	5611.8	5536.1
40°	6238.3	6250.4	6371.5	6574.3	6840.7	7007.2	6855.8	6589.5	6298.9	6171.7	6171.7
42.5°	6877.0	6928.5	7007.2	7182.7	7421.8	7606.5	7470.3	7261.4	6967.8	6804.4	6828.6
45°	7533.8	7558.0	7609.5	7869.8	7981.8	8072.6	7945.5	7848.6	7651.9	7452.1	7418.8
47.5°	8148.3	8157.4	8308.7	8390.4	8478.2	8402.5	8484.3	8357.1	8136.2	7942.5	7903.1
50°	8420.7	8405.6	8620.5	8868.7	8935.3	8802.1	8732.5	8647.7	8311.7	8078.7	7975.7
52.5°	7627.7	7715.4	8115.0	8805.1	9325.7	9437.7	9032.1	8641.7	8015.1	7561.1	7491.5
54°	6719.6	6801.3	7131.3	8154.3	9237.9	9616.3	8962.5	8133.1	7249.3	6710.5	6640.9
55°	5820.6	5729.8	6329.1	7373.4	8826.3	9458.9	8687.1	7476.3	6465.3	5972.0	5875.1
57.5°	3150.9	3166.1	3671.6	4658.3	6202.0	7252.3	6404.8	5057.9	3819.9	3266.0	3217.5
60°	998.9	1023.1	1244.0	1882.7	2963.3	3538.4	3032.9	2031.0	1404.5	1126.0	1080.6
62.5°	311.8	323.9	354.1	526.7	811.2	1159.3	908.1	544.8	405.6	372.3	378.4
65°	190.7	190.7	193.7	205.8	242.1	281.5	272.4	239.1	230.0	224.0	221.0
67.5°	124.1	121.1	127.1	136.2	142.3	145.3	154.4	163.4	160.4	154.4	154.4
70°	75.7	72.6	78.7	90.8	93.8	99.9	109.0	121.1	118.0	112.0	115.0
72.5°	42.4	42.4	45.4	54.5	63.6	69.6	78.7	87.8	90.8	87.8	87.8
75°	15.1	18.2	24.2	33.3	39.3	48.4	57.5	66.6	75.7	69.6	66.6
77.5°	6.1	6.1	12.1	21.2	30.3	39.3	54.5	63.6	69.6	63.6	57.5
80°	3.0	3.0	9.1	18.2	27.2	36.3	45.4	54.5	57.5	51.5	45.4
82.5°	3.0	3.0	9.1	18.2	27.2	33.3	48.4	54.5	60.5	54.5	45.4
85°	0.0	3.0	9.1	18.2	24.2	27.2	27.2	18.2	15.1	9.1	9.1
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)