

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: P529474

Luminaire Tested: **GALN-SA4C-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17345 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

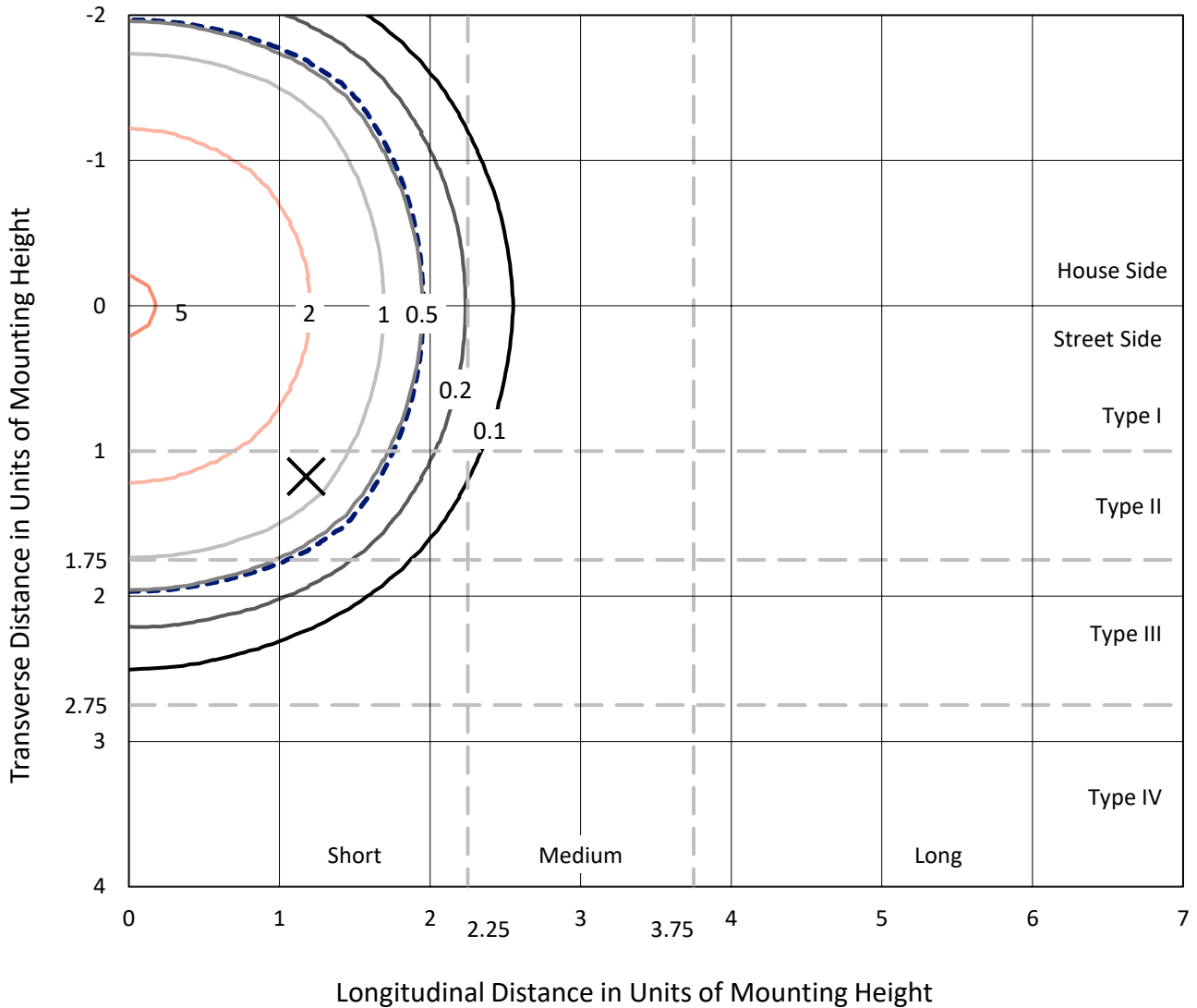
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

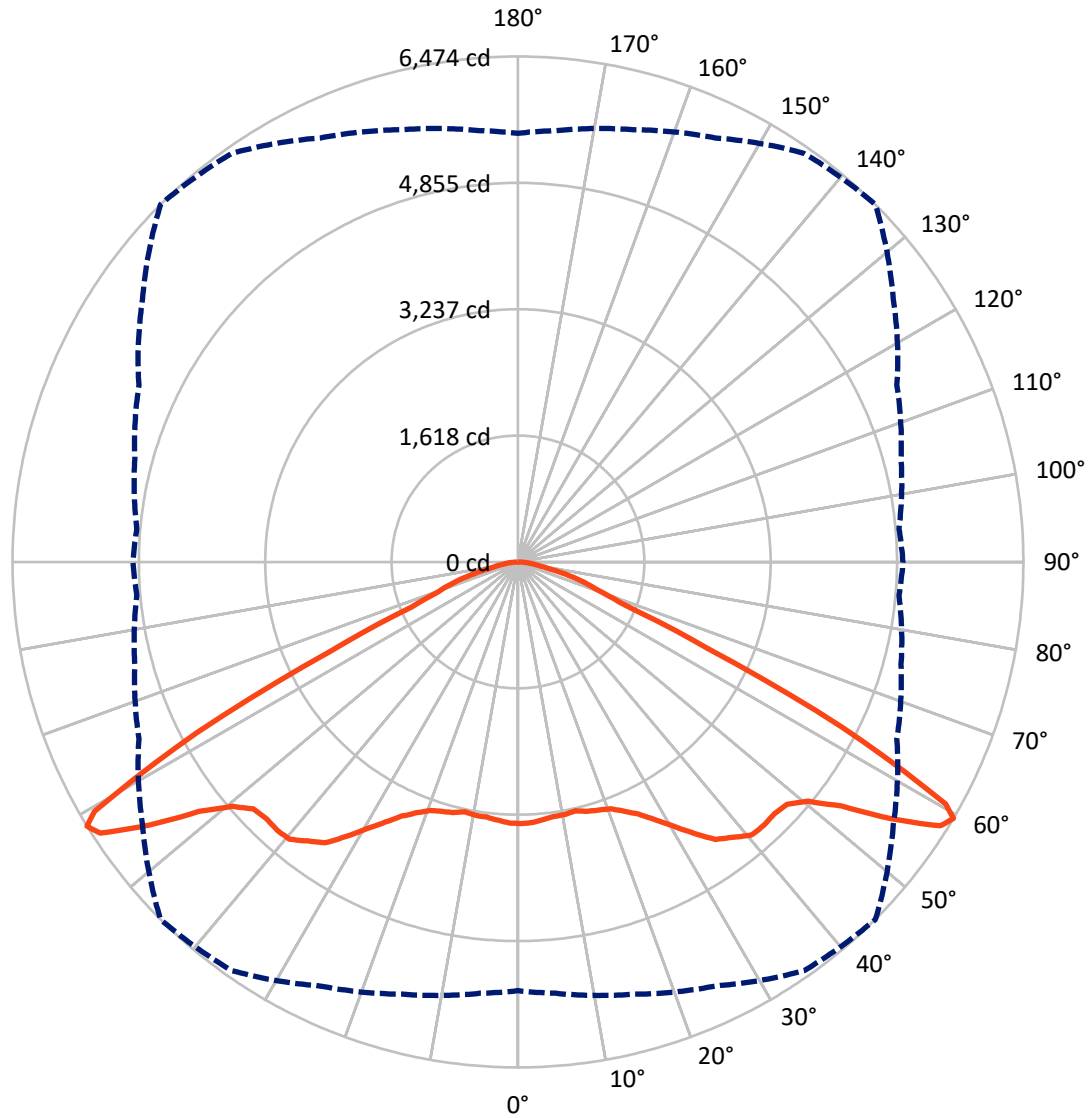
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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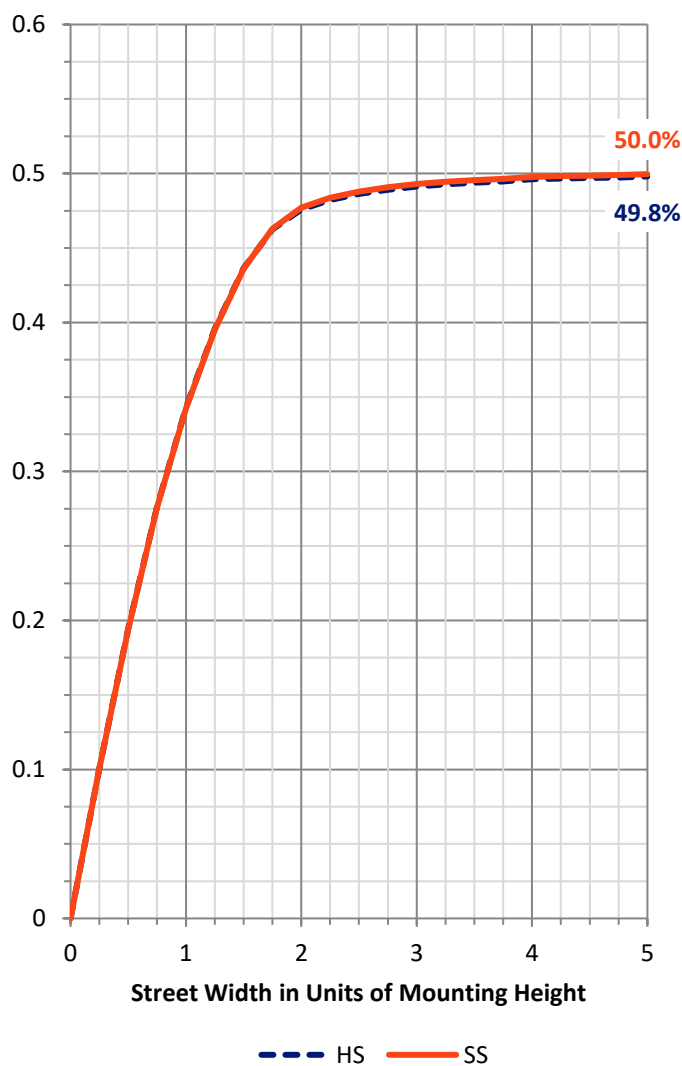
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8672.5	0.0	8672.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8672.5	0.0	8672.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17345.0	0.0	17345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.8	1.8
10°-20°	939.2	5.4
20°-30°	1639.9	9.5
30°-40°	2619.2	15.1
40°-50°	3567.9	20.6
50°-60°	4824.7	27.8
60°-70°	2645.9	15.3
70°-80°	676.9	3.9
80°-90°	115.4	0.7
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°	17345.0	100.0
0°-180°	17345.0	100.0

Coefficient of Utilization

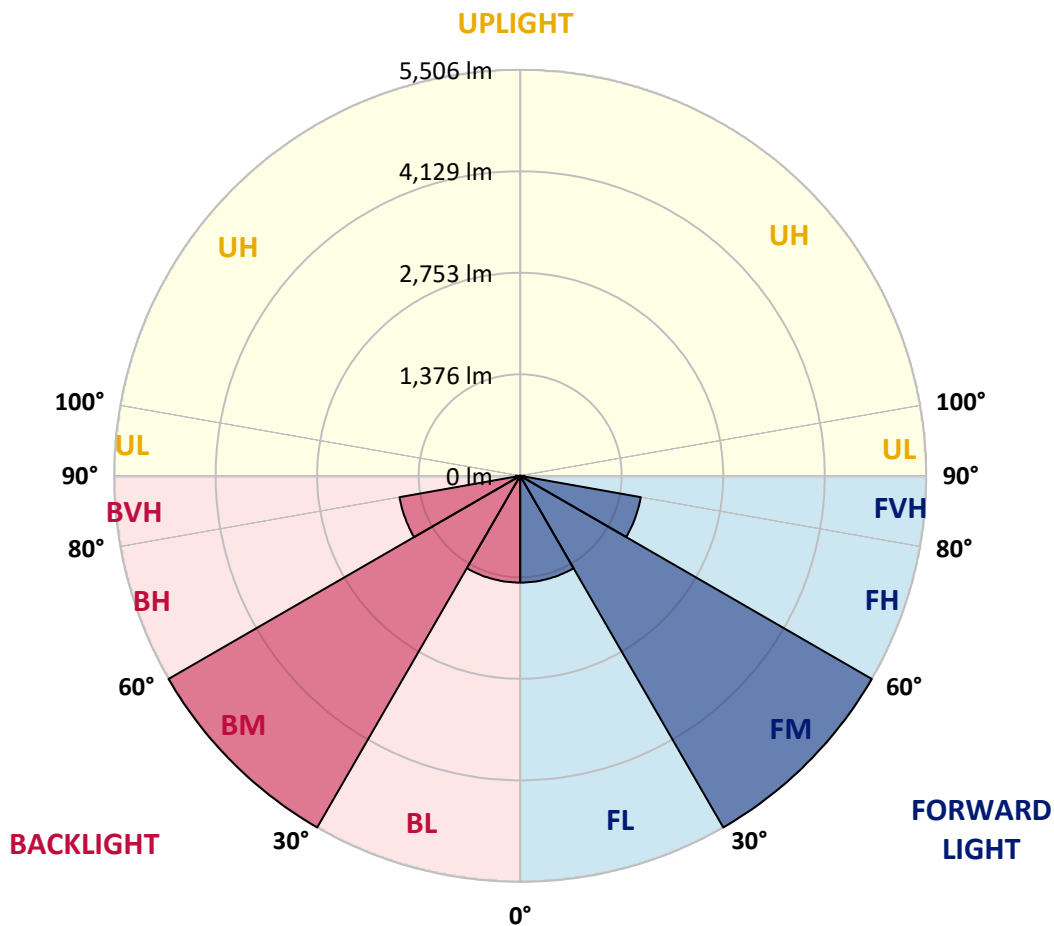


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1447.5	8.3			
FM (30°-60°)	5505.9	31.7			
FH (60°-80°)	1661.4	9.6			G1/1800
FVH (80°-90°)	57.7	0.3			G1/100
BL (0°-30°)	1447.5	8.3	B3/2500		
BM (30°-60°)	5505.9	31.7	B4/8500		
BH (60°-80°)	1661.4	9.6	B3/2500		G1/1800
BVH (80°-90°)	57.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3350.2	3350.2	3350.2	3350.2	3350.2	3350.2	3350.2	3350.2	3350.2	3350.2	3350.2
2.5°	3330.2	3354.7	3336.9	3352.4	3350.2	3343.6	3332.4	3325.8	3316.9	3330.2	3308.0
5°	3316.9	3336.9	3356.9	3330.2	3330.2	3316.9	3310.2	3296.9	3296.9	3294.6	3292.4
7.5°	3339.1	3319.1	3310.2	3314.7	3319.1	3290.2	3310.2	3283.5	3261.3	3276.9	3294.6
10°	3319.1	3328.0	3294.6	3310.2	3285.8	3290.2	3276.9	3294.6	3270.2	3270.2	3270.2
12.5°	3339.1	3314.7	3325.8	3314.7	3308.0	3270.2	3288.0	3268.0	3265.7	3288.0	3268.0
15°	3379.1	3339.1	3330.2	3308.0	3314.7	3314.7	3296.9	3299.1	3274.6	3288.0	3292.4
17.5°	3365.8	3343.6	3336.9	3310.2	3332.4	3339.1	3305.8	3283.5	3299.1	3296.9	3294.6
20°	3376.9	3385.8	3379.1	3383.6	3392.5	3374.7	3343.6	3312.4	3292.4	3321.3	3319.1
22.5°	3448.0	3439.1	3434.7	3430.3	3445.8	3463.6	3421.4	3372.5	3372.5	3392.5	3401.4
25°	3505.8	3503.6	3501.4	3521.4	3574.8	3574.8	3521.4	3459.2	3443.6	3456.9	3445.8
27.5°	3590.3	3614.8	3605.9	3641.5	3719.3	3737.0	3665.9	3592.5	3550.3	3534.7	3554.8
30°	3783.7	3754.8	3761.5	3799.3	3868.2	3926.0	3817.1	3739.3	3681.5	3679.2	3688.1
32.5°	3912.7	3934.9	3954.9	3990.5	4099.4	4143.9	4012.7	3886.0	3850.4	3830.4	3837.1
35°	4170.6	4150.5	4146.1	4181.7	4290.6	4364.0	4199.5	4088.3	4041.6	4086.1	4086.1
37.5°	4415.1	4359.5	4317.3	4364.0	4464.0	4472.9	4332.8	4272.8	4248.4	4299.5	4297.3
40°	4530.7	4526.2	4428.4	4455.1	4588.5	4601.8	4470.7	4399.5	4395.1	4461.8	4528.5
42.5°	4650.7	4608.5	4510.7	4528.5	4610.7	4615.2	4490.7	4470.7	4519.6	4584.0	4588.5
45°	4670.8	4635.2	4572.9	4528.5	4588.5	4601.8	4528.5	4541.8	4546.3	4624.1	4624.1
47.5°	4710.8	4706.3	4670.8	4637.4	4648.5	4637.4	4590.7	4610.7	4677.4	4715.2	4697.4
50°	4821.9	4775.2	4810.8	4781.9	4784.1	4815.3	4773.0	4793.0	4779.7	4746.3	4724.1
52.5°	5066.5	5044.2	5075.4	5095.4	5117.6	5188.7	5139.8	5033.1	4933.1	4844.2	4841.9
55°	5424.4	5439.9	5500.0	5602.2	5688.9	5802.3	5566.7	5311.0	5150.9	5010.9	5019.8
57.5°	5762.3	5751.2	5833.4	6066.9	6320.3	6378.1	5915.7	5551.1	5291.0	5202.1	5164.3
59°	5491.1	5544.4	5731.2	5991.3	6389.2	6473.7	5869.0	5355.5	5079.8	4899.7	4930.9
60°	5064.2	5084.2	5251.0	5613.3	6151.3	6295.8	5555.5	5053.1	4686.3	4581.8	4628.5
62.5°	3579.2	3563.6	3683.7	3979.4	4461.8	4657.4	4130.5	3777.1	3545.9	3430.3	3456.9
65°	1903.0	1974.1	2023.0	2207.5	2463.2	2670.0	2452.1	2298.7	2169.8	2074.2	2071.9
67.5°	1285.0	1276.1	1287.2	1329.4	1416.1	1473.9	1469.5	1391.7	1380.6	1362.8	1382.8
70°	1082.7	1078.2	1058.2	1058.2	1076.0	1089.3	1104.9	1113.8	1131.6	1153.8	1151.6
72.5°	878.1	867.0	853.7	847.0	869.2	875.9	895.9	904.8	920.4	918.1	938.2
75°	580.2	580.2	595.8	613.6	620.2	633.6	635.8	662.5	662.5	666.9	649.1
77.5°	324.6	315.7	326.8	344.6	360.1	384.6	409.1	429.1	440.2	435.7	435.7
80°	189.0	189.0	200.1	220.1	240.1	262.3	280.1	295.7	306.8	302.3	293.5
82.5°	117.8	117.8	128.9	148.9	164.5	177.8	202.3	222.3	235.6	231.2	220.1
85°	60.0	60.0	73.4	86.7	106.7	115.6	113.4	104.5	102.3	91.1	91.1
87.5°	15.6	15.6	22.2	24.5	20.0	22.2	22.2	22.2	22.2	22.2	24.5
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)