

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: P529082

Luminaire Tested: **GALN-SA4B-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-727-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16956 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

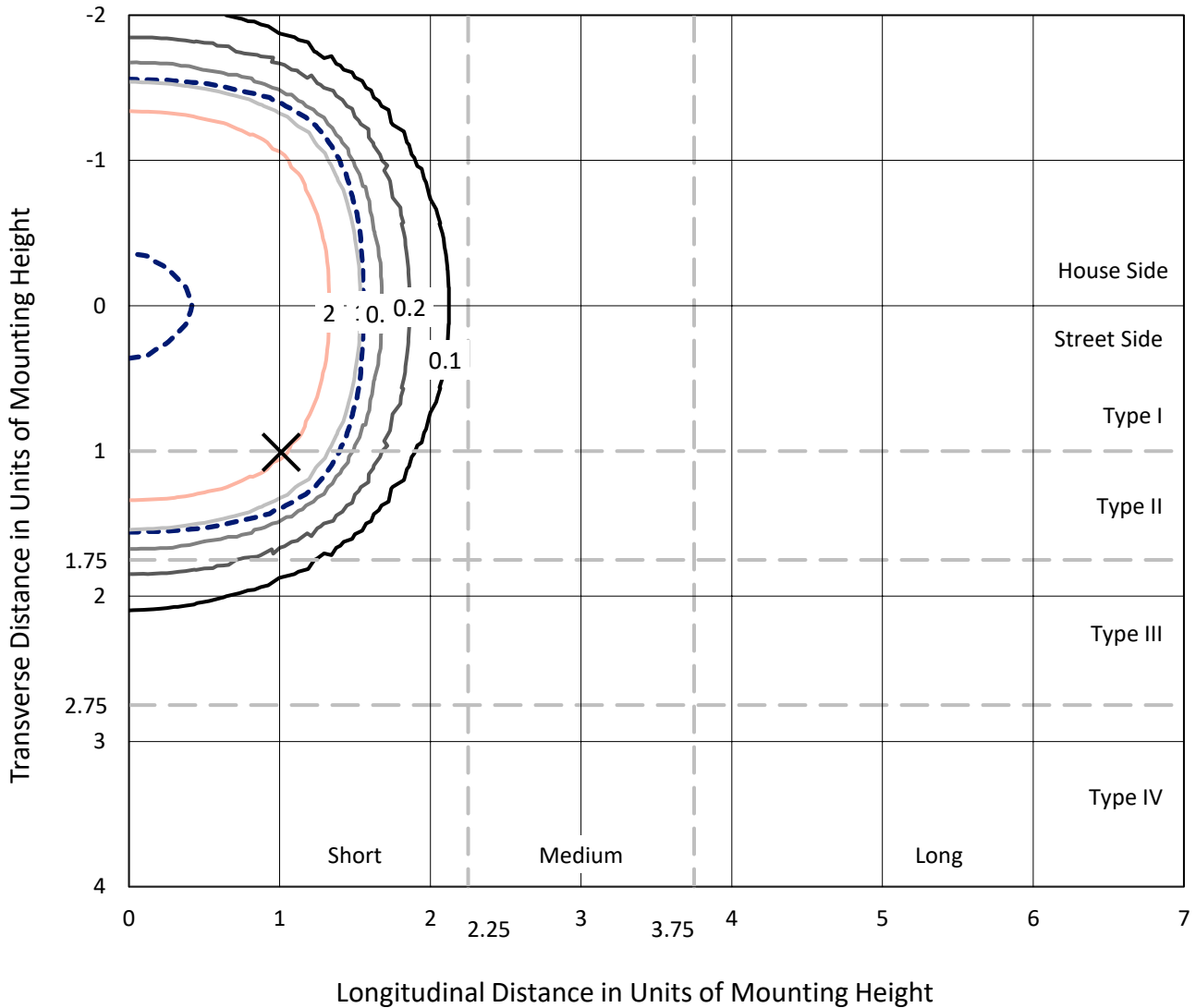
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

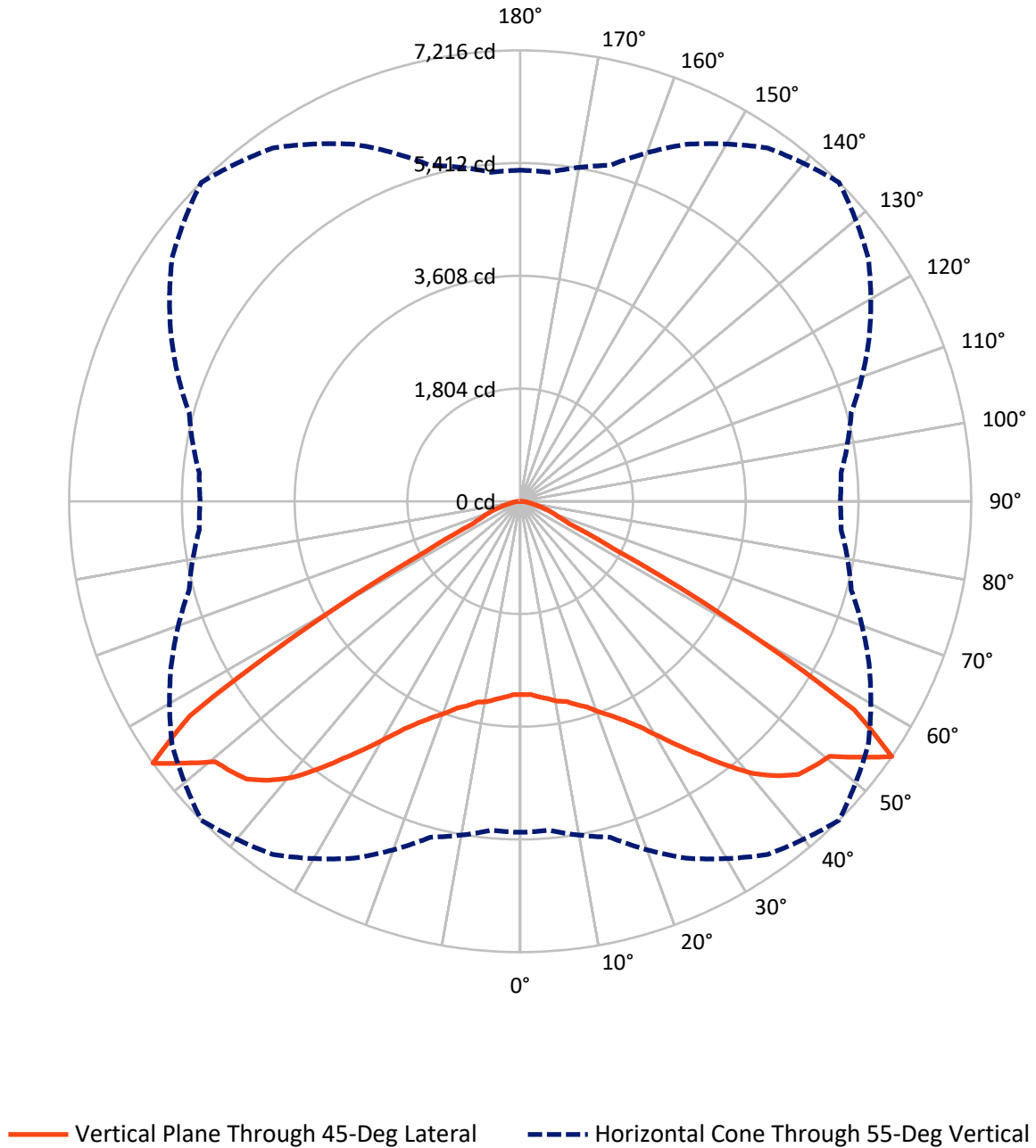
✕ Max cd
 - - - 1/2 Max cd



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	8478.0	0.0	8478.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8478.0	0.0	8478.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16956.0	0.0	16956.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.4	1.8
10°-20°	958.3	5.7
20°-30°	1786.9	10.5
30°-40°	2991.9	17.6
40°-50°	4655.6	27.5
50°-60°	4833.9	28.5
60°-70°	1025.1	6.0
70°-80°	337.6	2.0
80°-90°	64.3	0.4
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°	16956.0	100.0
0°-180°	16956.0	100.0

Coefficient of Utilization

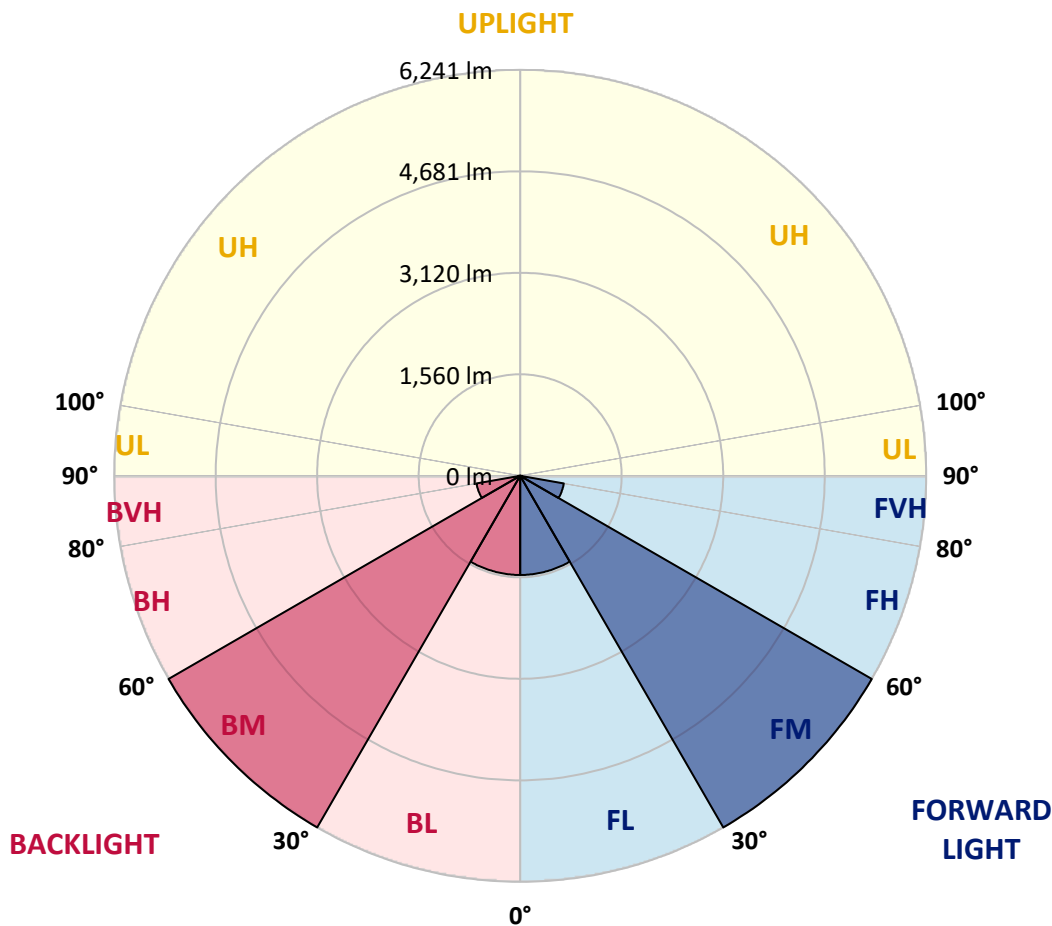


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1523.8	9.0			
FM (30°-60°)	6240.7	36.8			
FH (60°-80°)	681.4	4.0			G1/1800
FVH (80°-90°)	32.1	0.2			G1/100
BL (0°-30°)	1523.8	9.0	B3/2500		
BM (30°-60°)	6240.7	36.8	B4/8500		
BH (60°-80°)	681.4	4.0	B2/1000		G1/1800
BVH (80°-90°)	32.1	0.2			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°	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9
2.5°	3132.8	3118.5	3093.9	3112.3	3126.6	3095.9	3108.2	3114.4	3110.3	3093.9	3100.0
5°	3177.9	3169.7	3149.2	3163.5	3145.1	3145.1	3132.8	3116.4	3141.0	3136.9	3147.1
7.5°	3177.9	3167.6	3208.6	3182.0	3190.2	3190.2	3169.7	3153.3	3165.6	3147.1	3136.9
10°	3241.4	3255.7	3237.3	3243.4	3239.3	3253.7	3222.9	3212.7	3202.5	3196.3	3184.0
12.5°	3317.2	3307.0	3313.1	3309.0	3323.3	3286.5	3268.0	3245.5	3263.9	3237.3	3255.7
15°	3378.7	3372.5	3378.7	3395.1	3380.7	3378.7	3345.9	3323.3	3294.7	3300.8	3272.1
17.5°	3462.7	3456.5	3458.6	3472.9	3470.9	3460.6	3436.0	3393.0	3382.8	3366.4	3347.9
20°	3587.7	3577.4	3573.3	3579.5	3589.7	3597.9	3548.7	3532.3	3497.5	3470.9	3440.1
22.5°	3694.2	3690.1	3706.5	3679.9	3702.4	3727.0	3679.9	3671.7	3585.6	3571.3	3538.5
25°	3841.7	3835.6	3825.3	3864.3	3890.9	3888.8	3843.8	3798.7	3733.1	3716.7	3716.7
27.5°	3997.4	3962.6	4015.9	4026.1	4073.2	4087.6	4048.7	3983.1	3921.6	3886.8	3895.0
30°	4192.1	4159.3	4171.6	4245.4	4306.8	4360.1	4261.7	4165.4	4079.4	4017.9	4007.7
32.5°	4386.7	4353.9	4390.8	4462.5	4585.5	4665.4	4569.1	4401.1	4300.7	4210.5	4229.0
35°	4544.5	4569.1	4628.5	4737.1	4864.1	4993.2	4839.5	4710.5	4567.0	4466.6	4481.0
37.5°	4798.6	4874.4	4921.5	5046.5	5226.8	5360.0	5200.1	5032.1	4878.5	4747.3	4702.3
40°	5130.5	5181.7	5235.0	5382.5	5595.6	5728.8	5577.2	5357.9	5206.3	5071.1	5064.9
42.5°	5495.2	5544.4	5599.7	5780.0	5907.0	6007.4	5868.1	5751.3	5583.3	5476.8	5470.6
45°	5919.3	5884.5	5946.0	6064.8	6171.3	6236.9	6146.7	6089.4	5968.5	5870.1	5859.9
47.5°	6202.1	6171.3	6282.0	6388.5	6404.9	6333.2	6351.6	6404.9	6277.9	6116.0	6167.2
50°	6366.0	6366.0	6439.7	6538.1	6507.4	6415.2	6560.6	6564.7	6437.7	6294.3	6294.3
52.5°	6081.2	6144.7	6353.7	6675.4	6777.8	6804.5	6771.7	6632.3	6300.4	6007.4	5993.1
55°	5298.5	5284.2	5566.9	6304.5	6900.8	7216.3	6798.3	6157.0	5482.9	5153.0	5120.2
57.5°	3446.3	3462.7	3884.7	4636.7	5712.4	6300.4	5595.6	4694.1	3884.7	3429.9	3472.9
60°	1551.0	1606.4	1862.5	2423.9	3347.9	3827.4	3356.1	2546.8	1954.7	1696.5	1719.0
62.5°	891.3	901.5	911.8	1081.8	1426.0	1686.3	1481.4	1143.3	1008.1	963.0	963.0
65°	752.0	745.8	747.9	762.2	799.1	852.3	829.8	799.1	803.2	799.1	792.9
67.5°	639.3	647.5	641.3	651.6	653.6	661.8	676.1	688.4	690.5	694.6	690.5
70°	524.5	526.6	530.7	538.9	540.9	547.1	567.5	577.8	583.9	583.9	592.1
72.5°	401.6	399.5	403.6	411.8	422.1	424.1	442.6	456.9	465.1	454.9	456.9
75°	264.3	266.4	272.5	278.7	293.0	307.3	313.5	327.8	329.9	334.0	323.7
77.5°	157.8	161.9	168.0	180.3	192.6	204.9	219.2	229.5	233.6	229.5	217.2
80°	102.4	102.4	110.6	120.9	135.2	145.5	153.7	161.9	168.0	161.9	157.8
82.5°	63.5	63.5	73.8	86.1	96.3	102.4	114.7	125.0	131.1	127.0	120.9
85°	32.8	34.8	43.0	53.3	61.5	65.6	63.5	57.4	51.2	49.2	45.1
87.5°	10.2	10.2	12.3	12.3	10.2	10.2	12.3	10.2	12.3	12.3	12.3
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)