

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: P529601

Luminaire Tested: **GALN-SA4D-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529601
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-SA4D-735-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA 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: 19584 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

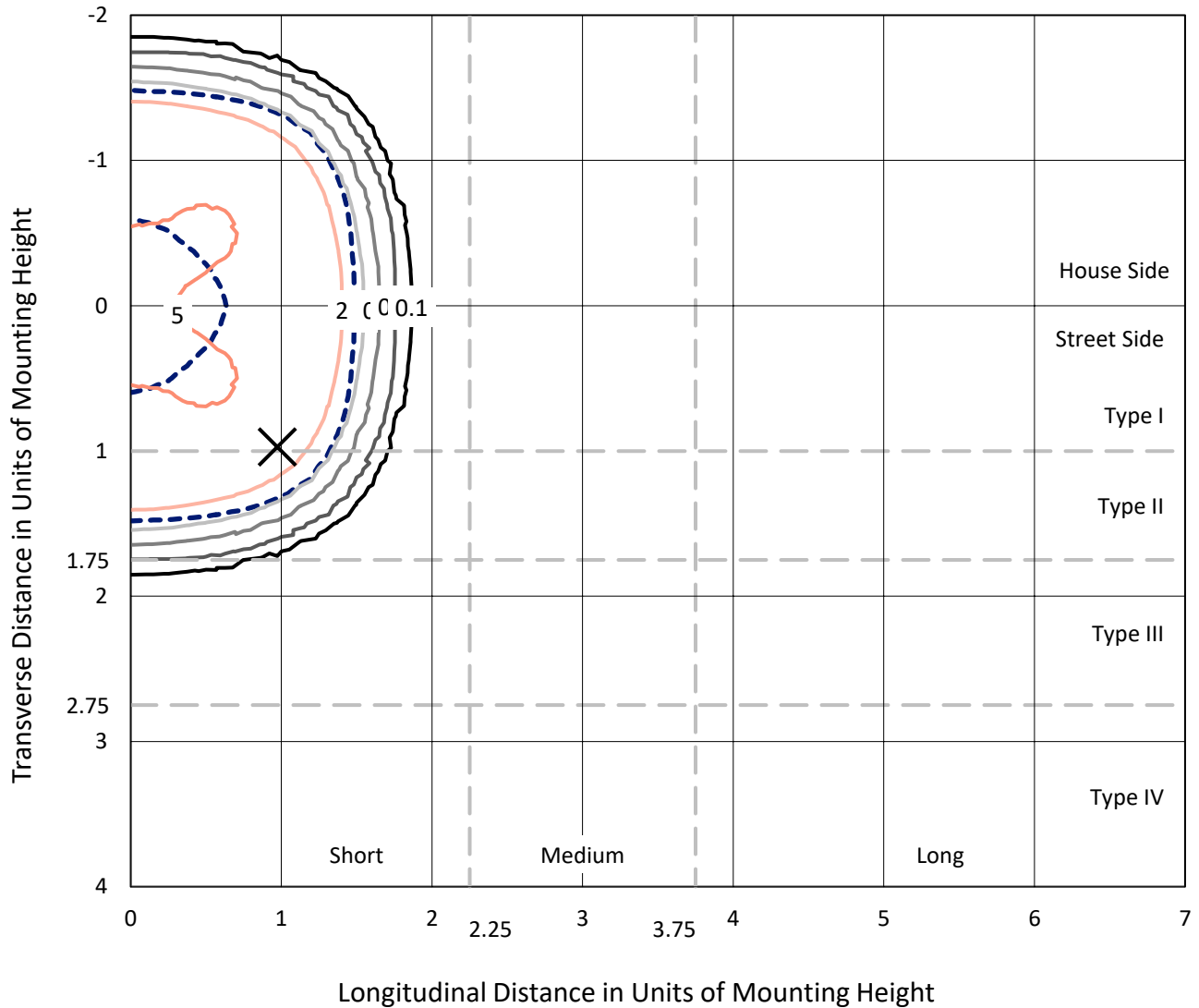
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

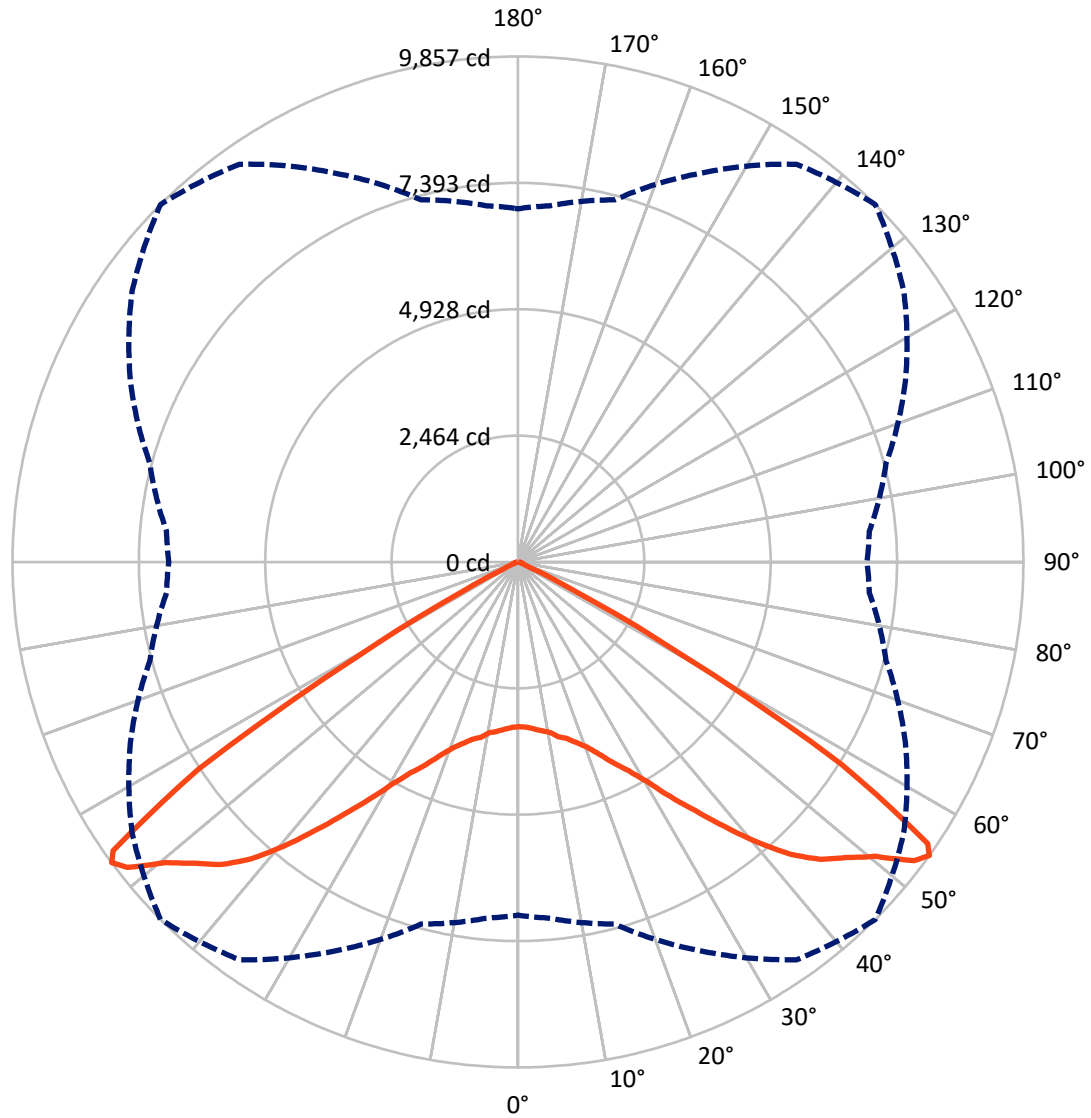
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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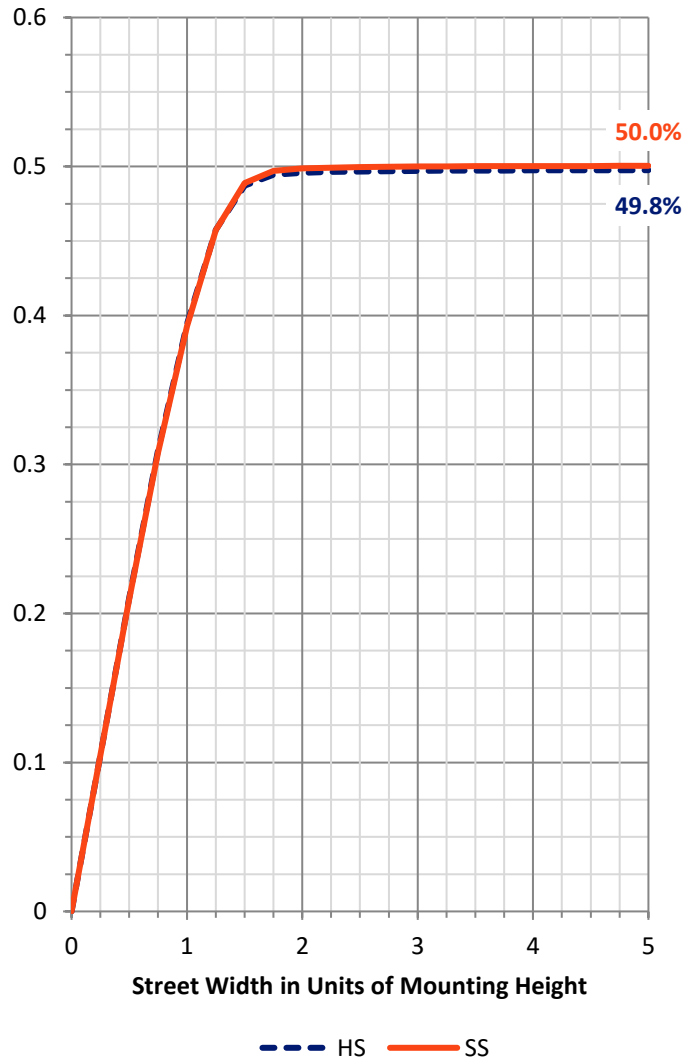
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9792.0	0.0	9792.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9792.0	0.0	9792.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19584.0	0.0	19584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.3	1.6
10°-20°	1017.8	5.2
20°-30°	1994.9	10.2
30°-40°	3587.2	18.3
40°-50°	6140.5	31.4
50°-60°	5941.6	30.3
60°-70°	508.6	2.6
70°-80°	60.3	0.3
80°-90°	18.9	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°	19584.0	100.0
0°-180°	19584.0	100.0

Coefficient of Utilization

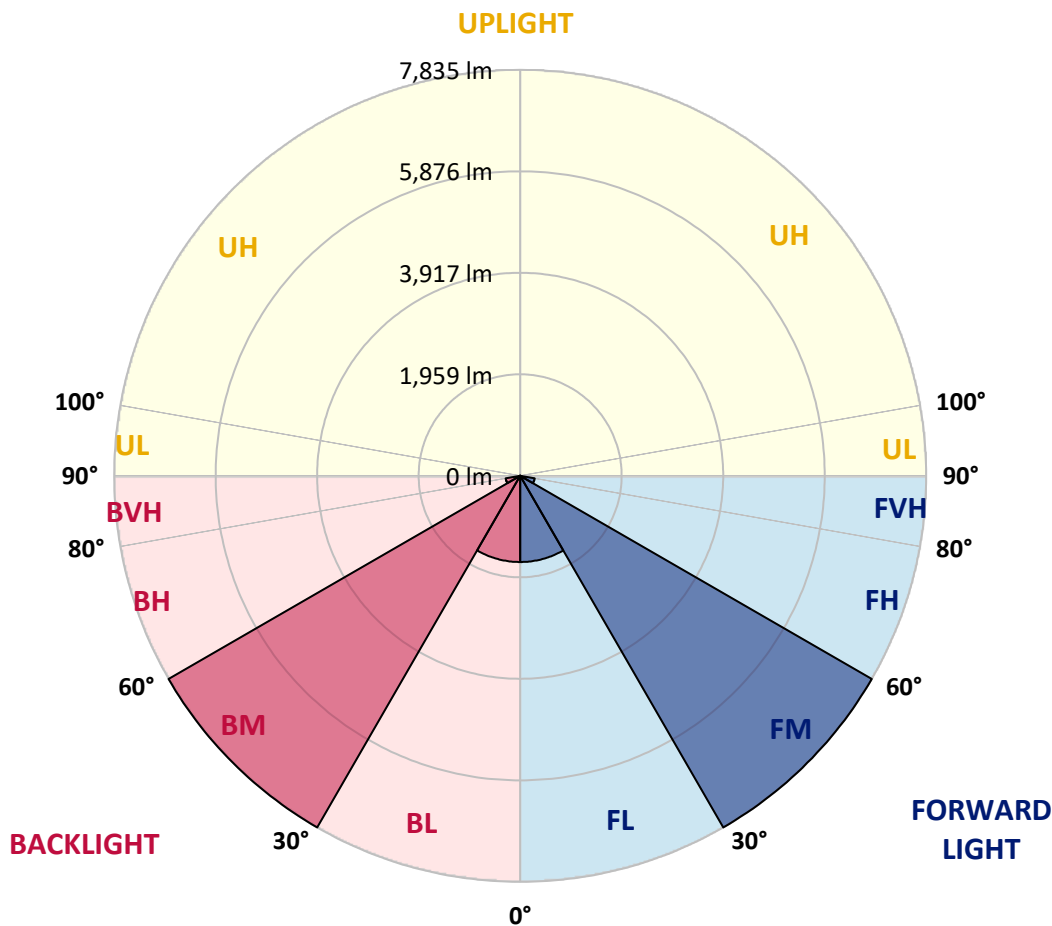


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1663.5	8.5			
FM (30°-60°)	7834.6	40.0			
FH (60°-80°)	284.4	1.5			G0/660
FVH (80°-90°)	9.4	0.0			G0/10
BL (0°-30°)	1663.5	8.5	B3/2500		
BM (30°-60°)	7834.6	40.0	B4/8500		
BH (60°-80°)	284.4	1.5	B1/500		G0/660
BVH (80°-90°)	9.4	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°	3211.2	3211.2	3211.2	3211.2	3211.2	3211.2	3211.2	3211.2	3211.2	3211.2	3211.2
2.5°	3226.7	3245.3	3232.9	3242.2	3242.2	3226.7	3236.0	3198.8	3223.6	3205.0	3208.1
5°	3276.3	3273.2	3273.2	3276.3	3263.9	3270.1	3257.7	3245.3	3236.0	3223.6	3260.8
7.5°	3338.4	3338.4	3316.7	3322.9	3316.7	3326.0	3301.1	3276.3	3267.0	3257.7	3251.5
10°	3397.3	3391.1	3381.8	3409.7	3388.0	3375.6	3363.2	3347.7	3313.6	3301.1	3288.7
12.5°	3484.2	3481.1	3468.7	3496.6	3484.2	3496.6	3450.1	3409.7	3403.5	3363.2	3384.9
15°	3586.6	3614.5	3592.8	3592.8	3586.6	3571.1	3552.4	3533.8	3478.0	3462.5	3465.6
17.5°	3720.0	3710.7	3713.8	3713.8	3744.8	3704.5	3667.2	3620.7	3592.8	3583.5	3552.4
20°	3847.2	3859.6	3856.5	3878.2	3896.8	3853.4	3813.1	3806.9	3729.3	3741.7	3698.3
22.5°	4070.6	4061.3	4076.8	4092.3	4079.9	4073.7	4036.5	3989.9	3921.7	3890.6	3884.4
25°	4306.4	4290.9	4262.9	4300.2	4318.8	4346.7	4275.3	4250.5	4145.0	4098.5	4101.6
27.5°	4508.0	4529.8	4560.8	4576.3	4622.8	4613.5	4563.9	4483.2	4402.6	4349.8	4315.7
30°	4784.2	4796.6	4849.3	4871.0	4951.7	4973.4	4895.9	4802.8	4660.1	4591.8	4551.5
32.5°	5038.6	5125.5	5122.4	5230.9	5361.3	5451.2	5311.6	5168.9	5026.2	4945.5	4874.1
35°	5451.2	5435.7	5525.7	5640.5	5851.5	5953.8	5801.8	5637.4	5420.2	5289.9	5234.0
37.5°	5835.9	5842.2	5963.2	6146.2	6388.2	6546.4	6413.0	6143.1	5919.7	5752.2	5674.6
40°	6394.4	6406.8	6530.9	6738.8	7011.8	7182.5	7027.3	6754.3	6456.5	6326.2	6326.2
42.5°	7049.1	7101.8	7182.5	7362.4	7607.5	7796.8	7657.2	7443.1	7142.1	6974.6	6999.4
45°	7722.3	7747.1	7799.9	8066.7	8181.5	8274.6	8144.3	8045.0	7843.3	7638.5	7604.4
47.5°	8352.1	8361.4	8516.6	8600.3	8690.3	8612.8	8696.5	8566.2	8339.7	8141.2	8100.8
50°	8631.4	8615.9	8836.1	9090.5	9158.8	9022.3	8950.9	8864.1	8519.7	8280.8	8175.3
52.5°	7818.5	7908.5	8318.0	9025.4	9559.0	9673.8	9258.1	8857.9	8215.6	7750.2	7678.9
54°	6887.7	6971.5	7309.7	8358.3	9469.1	9856.9	9186.7	8336.6	7430.7	6878.4	6807.1
55°	5966.3	5873.2	6487.5	7557.9	9047.1	9695.5	8904.4	7663.4	6627.1	6121.4	6022.1
57.5°	3229.8	3245.3	3763.4	4774.9	6357.2	7433.8	6565.1	5184.4	3915.5	3347.7	3298.0
60°	1023.8	1048.7	1275.2	1929.8	3037.4	3626.9	3108.8	2081.8	1439.6	1154.2	1107.6
62.5°	319.6	332.0	363.0	539.8	831.5	1188.3	930.8	558.5	415.7	381.6	387.8
65°	195.5	195.5	198.6	211.0	248.2	288.5	279.2	245.1	235.8	229.6	226.5
67.5°	127.2	124.1	130.3	139.6	145.8	148.9	158.2	167.5	164.4	158.2	158.2
70°	77.6	74.5	80.7	93.1	96.2	102.4	111.7	124.1	121.0	114.8	117.9
72.5°	43.4	43.4	46.5	55.8	65.2	71.4	80.7	90.0	93.1	90.0	90.0
75°	15.5	18.6	24.8	34.1	40.3	49.6	58.9	68.3	77.6	71.4	68.3
77.5°	6.2	6.2	12.4	21.7	31.0	40.3	55.8	65.2	71.4	65.2	58.9
80°	3.1	3.1	9.3	18.6	27.9	37.2	46.5	55.8	58.9	52.7	46.5
82.5°	3.1	3.1	9.3	18.6	27.9	34.1	49.6	55.8	62.1	55.8	46.5
85°	0.0	3.1	9.3	18.6	24.8	27.9	27.9	18.6	15.5	9.3	9.3
87.5°	0.0	0.0	3.1	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)