

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: P529134

Luminaire Tested: **GALN-SA4B-735-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529134
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-735-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 18887 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

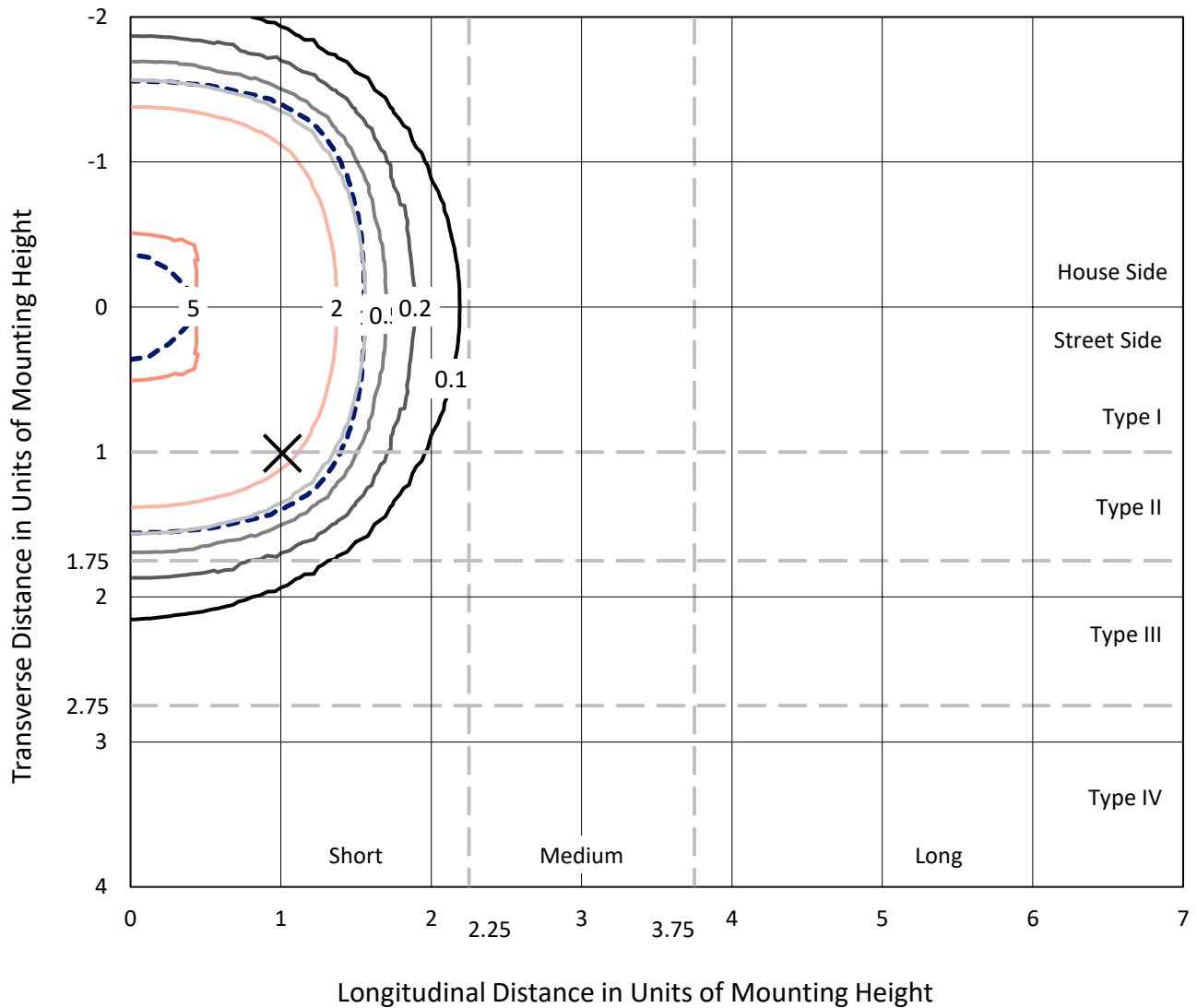
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

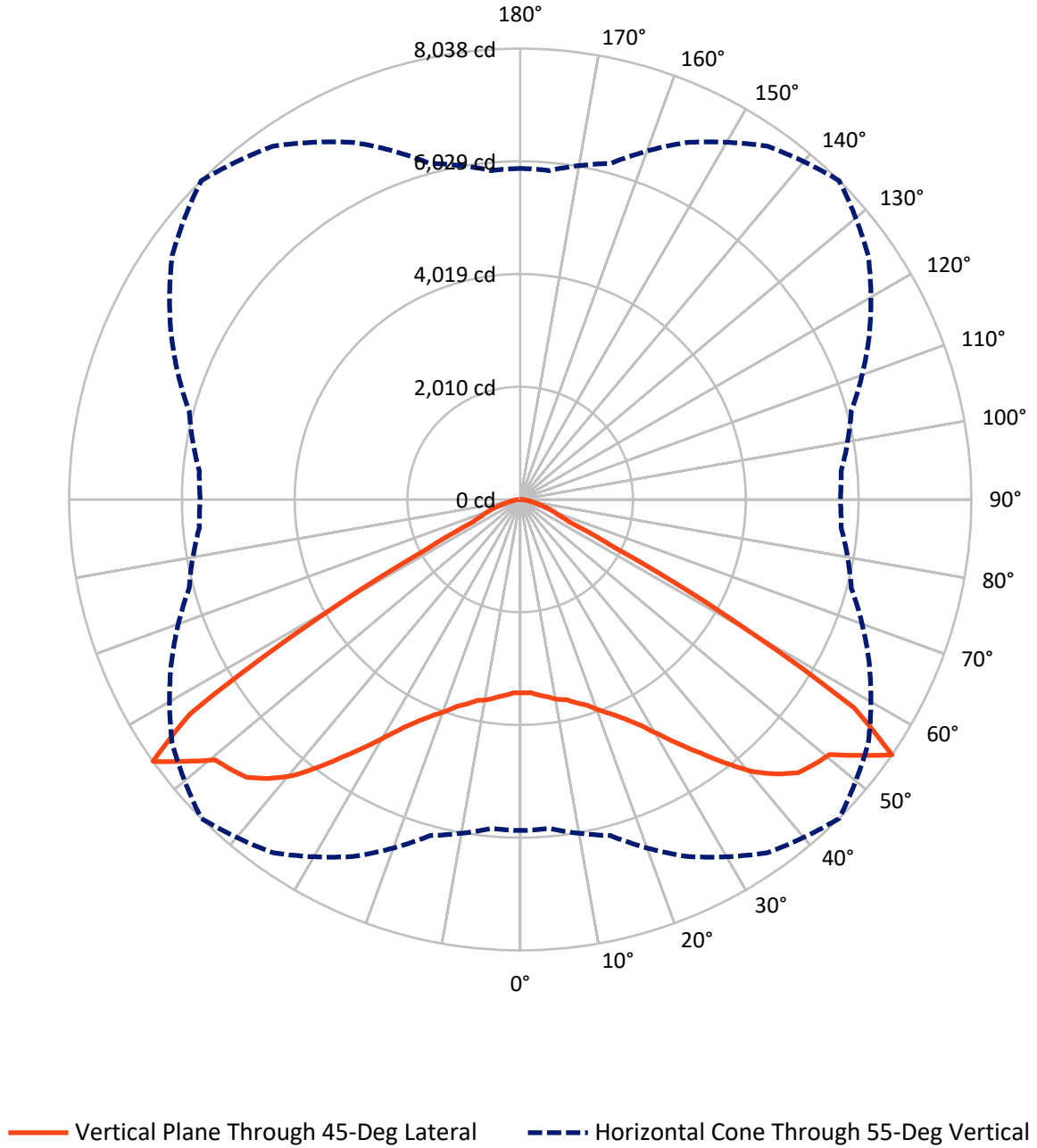
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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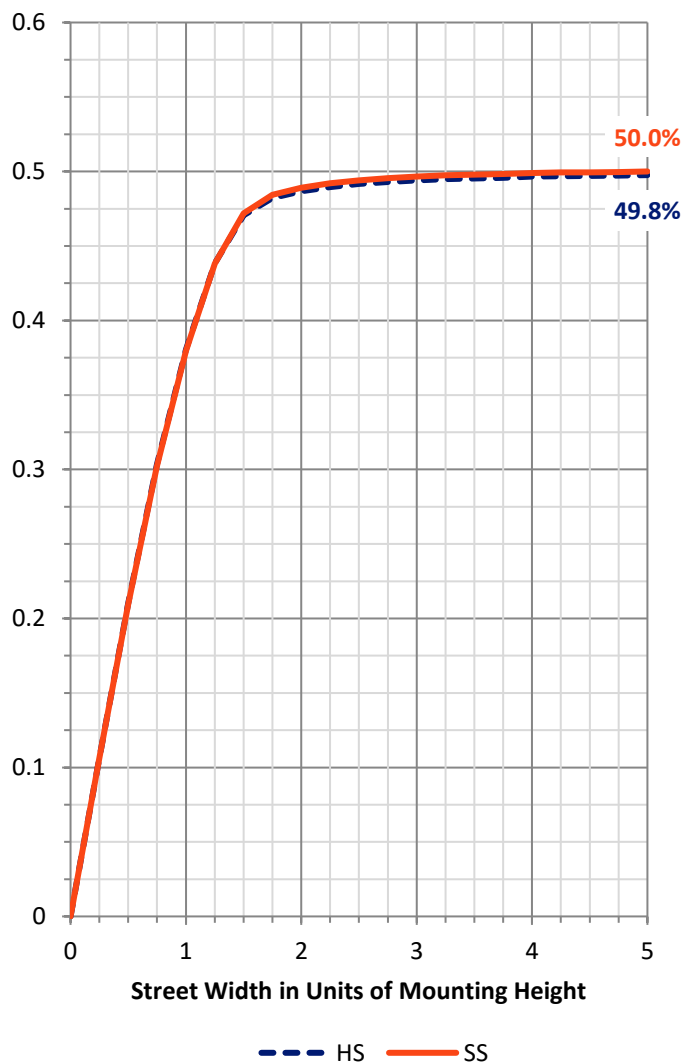
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9443.5	0.0	9443.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9443.5	0.0	9443.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18887.0	0.0	18887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.9	1.8
10°-20°	1067.4	5.7
20°-30°	1990.4	10.5
30°-40°	3332.6	17.6
40°-50°	5185.8	27.5
50°-60°	5384.4	28.5
60°-70°	1141.9	6.0
70°-80°	376.0	2.0
80°-90°	71.6	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°	18887.0	100.0
0°-180°	18887.0	100.0

Coefficient of Utilization

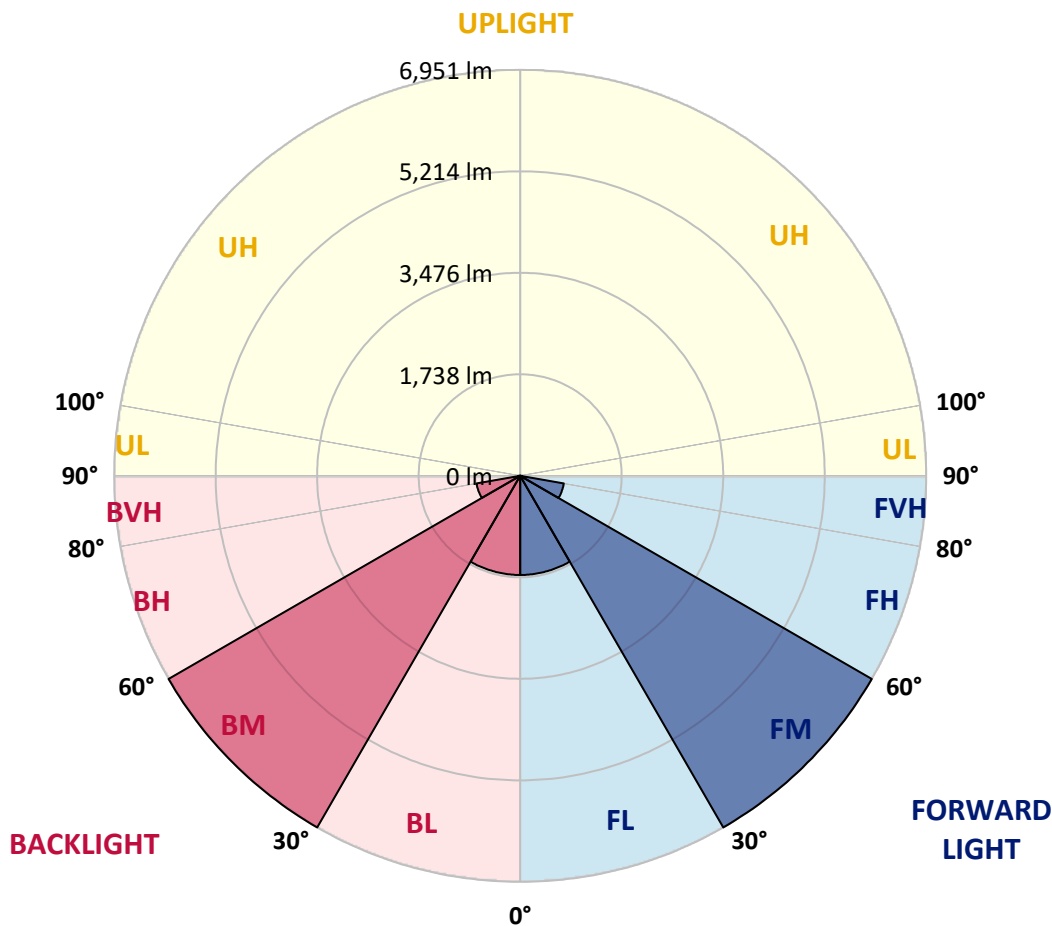


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1697.3	9.0			
FM (30°-60°)	6951.4	36.8			
FH (60°-80°)	759.0	4.0			G1/1800
FVH (80°-90°)	35.8	0.2			G1/100
BL (0°-30°)	1697.3	9.0	B3/2500		
BM (30°-60°)	6951.4	36.8	B4/8500		
BH (60°-80°)	759.0	4.0	B2/1000		G1/1800
BVH (80°-90°)	35.8	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°	3448.5	3448.5	3448.5	3448.5	3448.5	3448.5	3448.5	3448.5	3448.5	3448.5	3448.5
2.5°	3489.6	3473.6	3446.2	3466.7	3482.7	3448.5	3462.2	3469.0	3464.5	3446.2	3453.0
5°	3539.8	3530.6	3507.8	3523.8	3503.3	3503.3	3489.6	3471.3	3498.7	3494.1	3505.5
7.5°	3539.8	3528.4	3574.0	3544.3	3553.5	3553.5	3530.6	3512.4	3526.1	3505.5	3494.1
10°	3610.5	3626.5	3606.0	3612.8	3608.2	3624.2	3590.0	3578.6	3567.2	3560.3	3546.6
12.5°	3695.0	3683.6	3690.4	3685.8	3701.8	3660.7	3640.2	3615.1	3635.6	3606.0	3626.5
15°	3763.4	3756.6	3763.4	3781.7	3765.7	3763.4	3726.9	3701.8	3669.9	3676.7	3644.8
17.5°	3857.0	3850.2	3852.4	3868.4	3866.1	3854.7	3827.3	3779.4	3768.0	3749.7	3729.2
20°	3996.2	3984.8	3980.2	3987.1	3998.5	4007.6	3952.9	3934.6	3895.8	3866.1	3831.9
22.5°	4114.9	4110.3	4128.6	4098.9	4124.0	4151.4	4098.9	4089.8	3993.9	3978.0	3941.5
25°	4279.2	4272.4	4261.0	4304.3	4334.0	4331.7	4281.5	4231.3	4158.3	4140.0	4140.0
27.5°	4452.7	4413.9	4473.2	4484.6	4537.1	4553.1	4509.7	4436.7	4368.2	4329.4	4338.6
30°	4669.5	4633.0	4646.7	4728.8	4797.3	4856.6	4747.1	4639.8	4544.0	4475.5	4464.1
32.5°	4886.3	4849.8	4890.9	4970.7	5107.7	5196.7	5089.4	4902.3	4790.4	4690.0	4710.6
35°	5062.0	5089.4	5155.6	5276.6	5418.1	5561.9	5390.7	5246.9	5087.1	4975.3	4991.3
37.5°	5345.0	5429.5	5482.0	5621.2	5822.0	5970.4	5792.4	5605.2	5434.0	5288.0	5237.8
40°	5714.8	5771.8	5831.2	5995.5	6232.8	6381.2	6212.3	5968.1	5799.2	5648.6	5641.7
42.5°	6121.0	6175.8	6237.4	6438.2	6579.7	6691.6	6536.4	6406.3	6219.1	6100.5	6093.6
45°	6593.4	6554.6	6623.1	6755.5	6874.1	6947.2	6846.8	6782.9	6648.2	6538.7	6527.2
47.5°	6908.4	6874.1	6997.4	7116.1	7134.3	7054.4	7075.0	7134.3	6992.8	6812.5	6869.6
50°	7091.0	7091.0	7173.1	7282.7	7248.4	7145.7	7307.8	7312.3	7170.8	7011.1	7011.1
52.5°	6773.7	6844.5	7077.3	7435.6	7549.7	7579.4	7542.8	7387.7	7017.9	6691.6	6675.6
55°	5901.9	5885.9	6200.9	7022.5	7686.6	8038.1	7572.5	6858.2	6107.3	5739.9	5703.4
57.5°	3838.7	3857.0	4327.2	5164.7	6362.9	7017.9	6232.8	5228.6	4327.2	3820.5	3868.4
60°	1727.7	1789.3	2074.6	2699.9	3729.2	4263.2	3738.3	2836.8	2177.3	1889.7	1914.8
62.5°	992.8	1004.2	1015.6	1205.0	1588.4	1878.3	1650.1	1273.5	1122.9	1072.7	1072.7
65°	837.6	830.7	833.0	849.0	890.1	949.4	924.3	890.1	894.6	890.1	883.2
67.5°	712.1	721.2	714.3	725.8	728.0	737.2	753.1	766.8	769.1	773.7	769.1
70°	584.3	586.5	591.1	600.2	602.5	609.4	632.2	643.6	650.4	650.4	659.6
72.5°	447.3	445.0	449.6	458.7	470.1	472.4	493.0	508.9	518.1	506.7	508.9
75°	294.4	296.7	303.5	310.4	326.4	342.3	349.2	365.2	367.4	372.0	360.6
77.5°	175.7	180.3	187.1	200.8	214.5	228.2	244.2	255.6	260.2	255.6	241.9
80°	114.1	114.1	123.2	134.7	150.6	162.0	171.2	180.3	187.1	180.3	175.7
82.5°	70.7	70.7	82.2	95.9	107.3	114.1	127.8	139.2	146.1	141.5	134.7
85°	36.5	38.8	47.9	59.3	68.5	73.0	70.7	63.9	57.1	54.8	50.2
87.5°	11.4	11.4	13.7	13.7	11.4	11.4	13.7	11.4	13.7	13.7	13.7
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)