

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: P529496

Luminaire Tested: **GALN-SA4C-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19507 lumens
Efficiency: N/A
Efficacy: 91.6 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

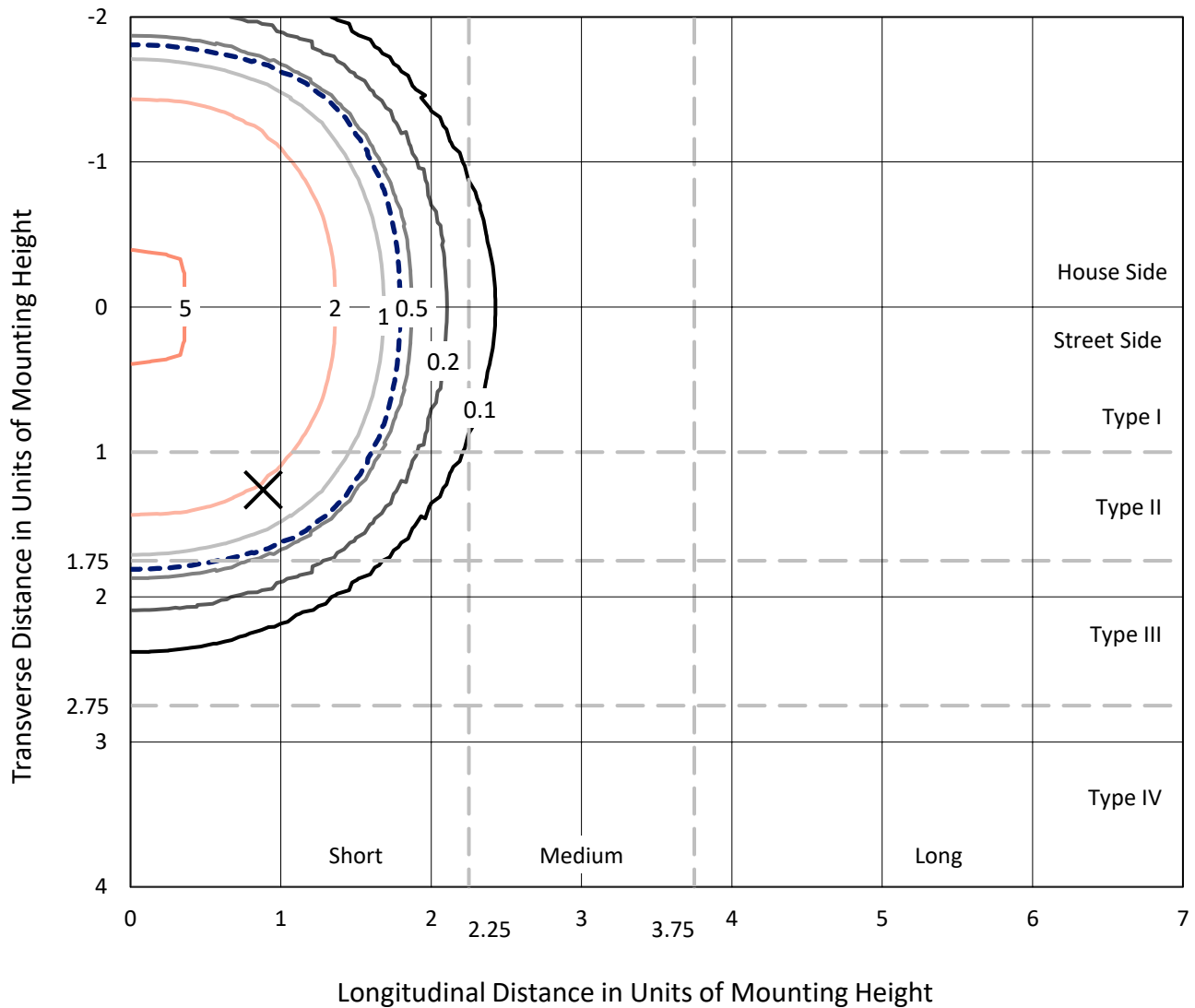


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

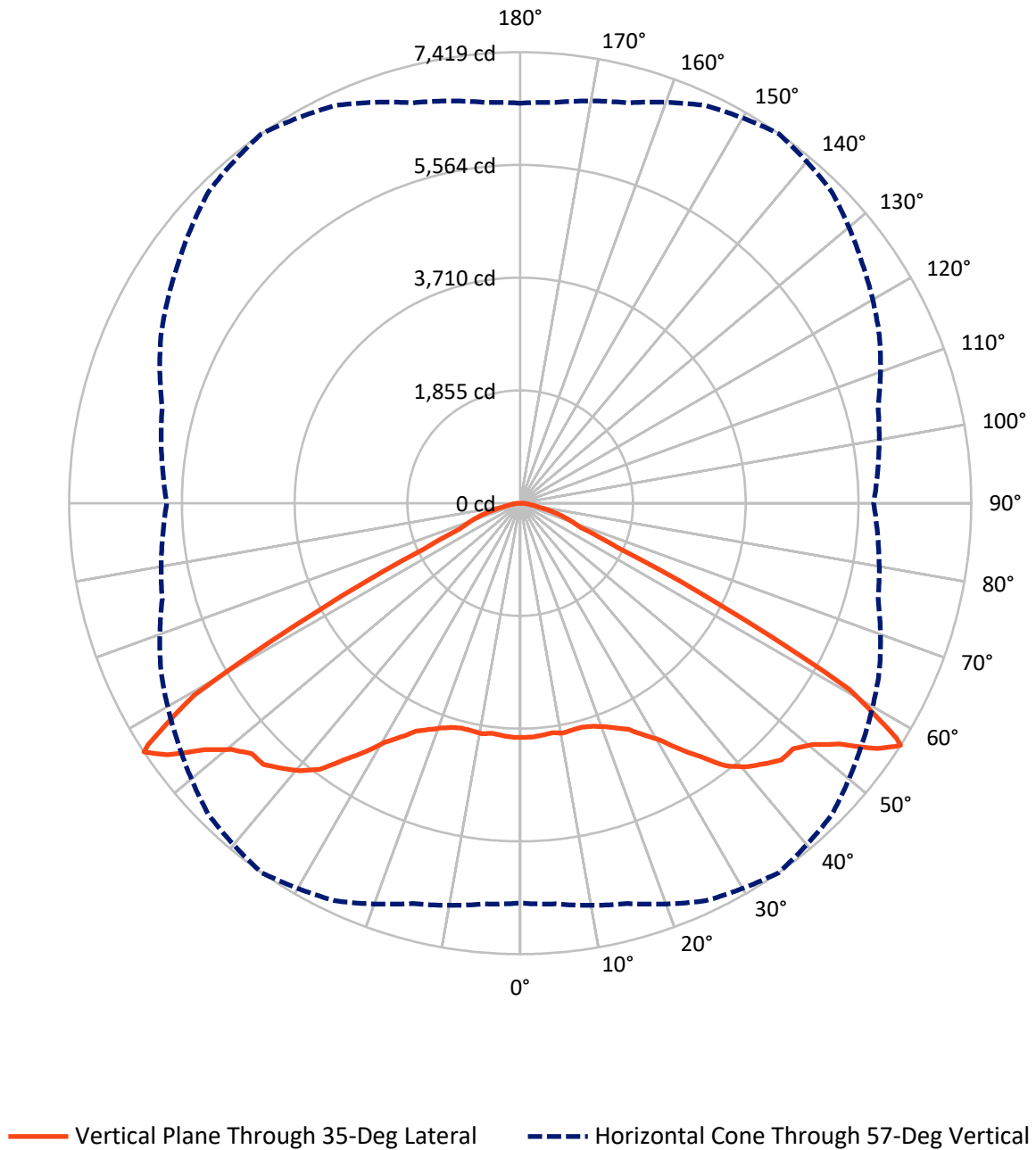


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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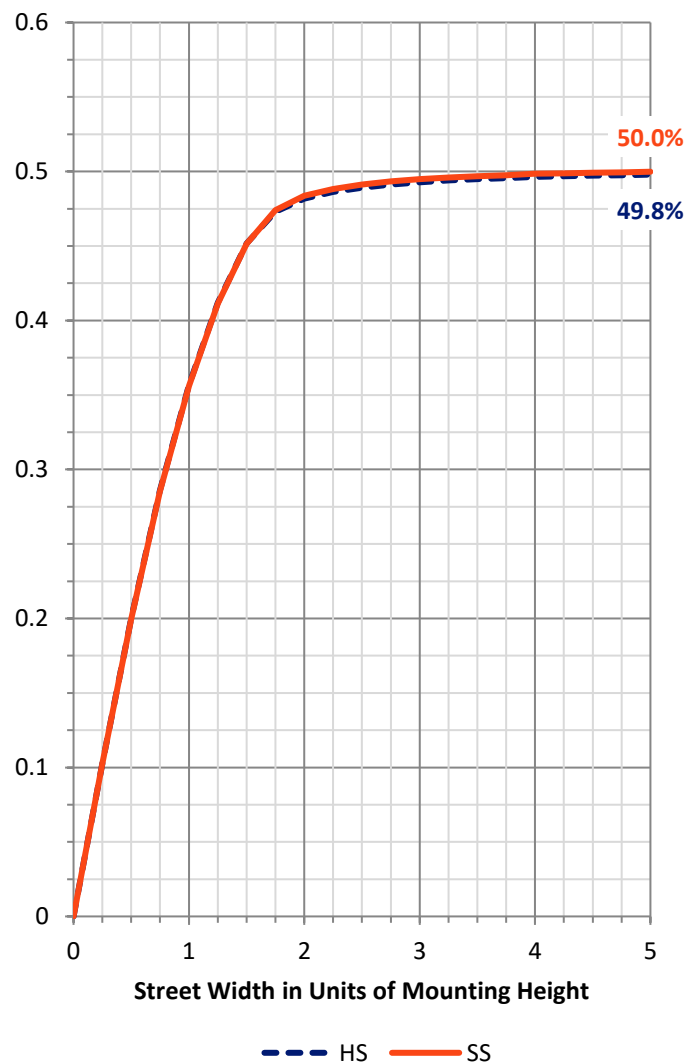
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9753.5	0.0	9753.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9753.5	0.0	9753.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19507.0	0.0	19507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.2	1.9
10°-20°	1081.7	5.5
20°-30°	1889.2	9.7
30°-40°	3095.5	15.9
40°-50°	4538.7	23.3
50°-60°	5716.9	29.3
60°-70°	2150.1	11.0
70°-80°	571.7	2.9
80°-90°	98.0	0.5
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°	19507.0	100.0
0°-180°	19507.0	100.0

Coefficient of Utilization



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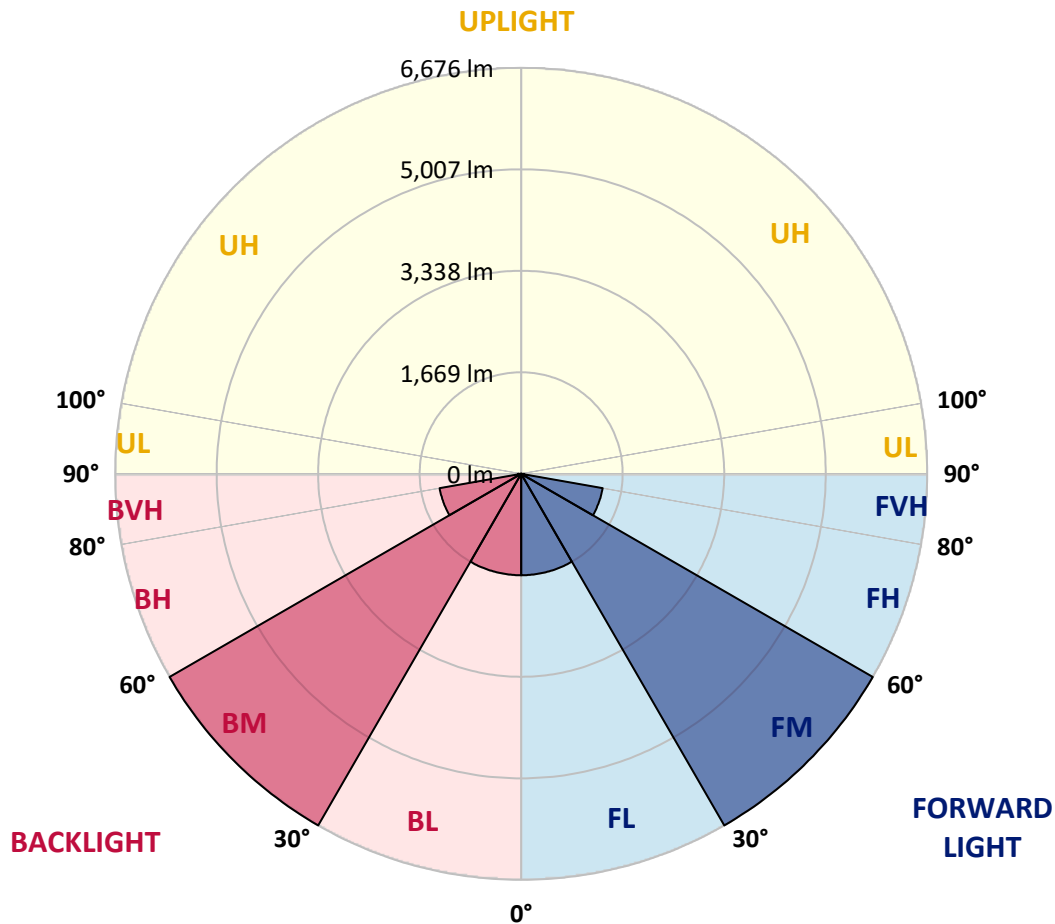
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1668.1	8.6			
FM	(30°-60°)	6675.6	34.2			
FH	(60°-80°)	1360.9	7.0			G1/1800
FVH	(80°-90°)	49.0	0.3			G1/100
BL	(0°-30°)	1668.1	8.6	B3/2500		
BM	(30°-60°)	6675.6	34.2	B4/8500		
BH	(60°-80°)	1360.9	7.0	B3/2500		G1/1800
BVH	(80°-90°)	49.0	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°	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5
2.5°	3833.3	3871.7	3854.9	3845.3	3852.5	3840.5	3821.2	3842.9	3838.1	3818.8	3811.6
5°	3823.6	3852.5	3833.3	3852.5	3833.3	3866.9	3857.3	3821.2	3864.5	3823.6	3838.1
7.5°	3816.4	3826.1	3830.9	3821.2	3814.0	3854.9	3833.3	3816.4	3792.4	3785.2	3797.2
10°	3799.6	3823.6	3787.6	3835.7	3845.3	3816.4	3816.4	3785.2	3766.0	3754.0	3794.8
12.5°	3842.9	3802.0	3797.2	3821.2	3828.5	3840.5	3806.8	3790.0	3754.0	3758.8	3751.6
15°	3792.4	3809.2	3811.6	3816.4	3823.6	3852.5	3821.2	3785.2	3770.8	3720.3	3725.1
17.5°	3811.6	3794.8	3811.6	3866.9	3857.3	3878.9	3845.3	3790.0	3756.4	3727.5	3766.0
20°	3845.3	3838.1	3845.3	3912.6	3924.6	3943.8	3915.0	3864.5	3799.6	3766.0	3785.2
22.5°	3881.3	3876.5	3881.3	3946.2	4015.9	4039.9	4011.1	3893.3	3859.7	3797.2	3775.6
25°	3946.2	3951.0	4001.5	4073.6	4119.3	4164.9	4112.0	4027.9	3919.8	3881.3	3835.7
27.5°	4090.4	4102.4	4131.3	4237.0	4316.3	4357.2	4282.7	4167.3	4100.0	4020.7	4008.7
30°	4268.3	4268.3	4318.7	4410.1	4518.2	4580.7	4489.4	4352.4	4270.7	4227.4	4201.0
32.5°	4503.8	4477.3	4496.6	4657.6	4825.8	4878.7	4756.1	4587.9	4458.1	4400.4	4381.2
35°	4705.7	4722.5	4765.7	4938.8	5126.2	5248.8	5056.5	4837.8	4705.7	4652.8	4643.2
37.5°	4967.6	4996.5	5018.1	5256.0	5481.9	5527.6	5342.5	5167.1	5006.1	4962.8	4938.8
40°	5337.7	5318.5	5325.7	5501.2	5705.4	5734.3	5551.6	5426.6	5294.5	5268.0	5268.0
42.5°	5642.9	5621.3	5645.4	5710.2	5866.5	5844.8	5743.9	5652.6	5597.3	5568.4	5597.3
45°	5828.0	5823.2	5866.5	5914.5	6025.1	5953.0	5873.7	5888.1	5835.2	5787.1	5784.7
47.5°	6029.9	5998.6	6051.5	6123.6	6039.5	6005.8	6001.0	6032.3	6015.5	5931.3	5904.9
50°	6128.4	6116.4	6200.5	6284.6	6239.0	6162.1	6178.9	6229.4	6013.1	5900.1	5835.2
52.5°	6392.8	6395.2	6556.2	6601.9	6582.6	6469.7	6505.7	6368.7	6114.0	5955.4	5962.6
55°	6808.5	6791.7	6972.0	7106.6	7128.2	6984.0	6811.0	6618.7	6299.0	6138.0	6090.0
57°	6580.2	6618.7	6818.2	7217.1	7419.0	7248.4	6871.0	6520.2	6094.8	5900.1	5813.6
57.5°	6275.0	6337.5	6683.6	7084.9	7296.4	7282.0	6796.5	6337.5	5957.8	5655.0	5662.2
60°	4597.5	4609.5	4922.0	5558.8	6219.7	6234.2	5642.9	5034.9	4611.9	4282.7	4328.3
62.5°	2424.9	2480.2	2605.2	3117.1	3689.1	3828.5	3470.4	3157.9	2792.6	2542.7	2566.7
65°	1283.4	1276.2	1336.2	1480.4	1761.6	1833.7	1785.7	1538.1	1410.7	1369.9	1372.3
67.5°	1043.0	1055.0	1047.8	1055.0	1074.3	1105.5	1098.3	1107.9	1115.1	1127.1	1124.7
70°	884.4	884.4	889.2	891.6	891.6	906.0	922.9	954.1	956.5	968.5	973.3
72.5°	697.0	692.2	699.4	716.2	718.6	730.6	754.6	773.9	781.1	781.1	766.7
75°	473.4	478.3	487.9	502.3	516.7	538.3	557.6	569.6	574.4	567.2	560.0
77.5°	266.8	271.6	278.8	300.4	317.2	336.5	358.1	370.1	382.1	384.5	370.1
80°	158.6	158.6	170.6	187.5	206.7	225.9	245.1	259.6	264.4	264.4	257.2
82.5°	96.1	98.5	108.1	125.0	141.8	153.8	170.6	182.7	192.3	189.9	185.1
85°	50.5	50.5	60.1	74.5	86.5	98.5	98.5	91.3	86.5	74.5	69.7
87.5°	16.8	14.4	19.2	19.2	16.8	19.2	19.2	21.6	21.6	21.6	21.6
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)