

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: P529500

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529500
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-830-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 18749 lumens
Efficiency: N/A
Efficacy: 88.0 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

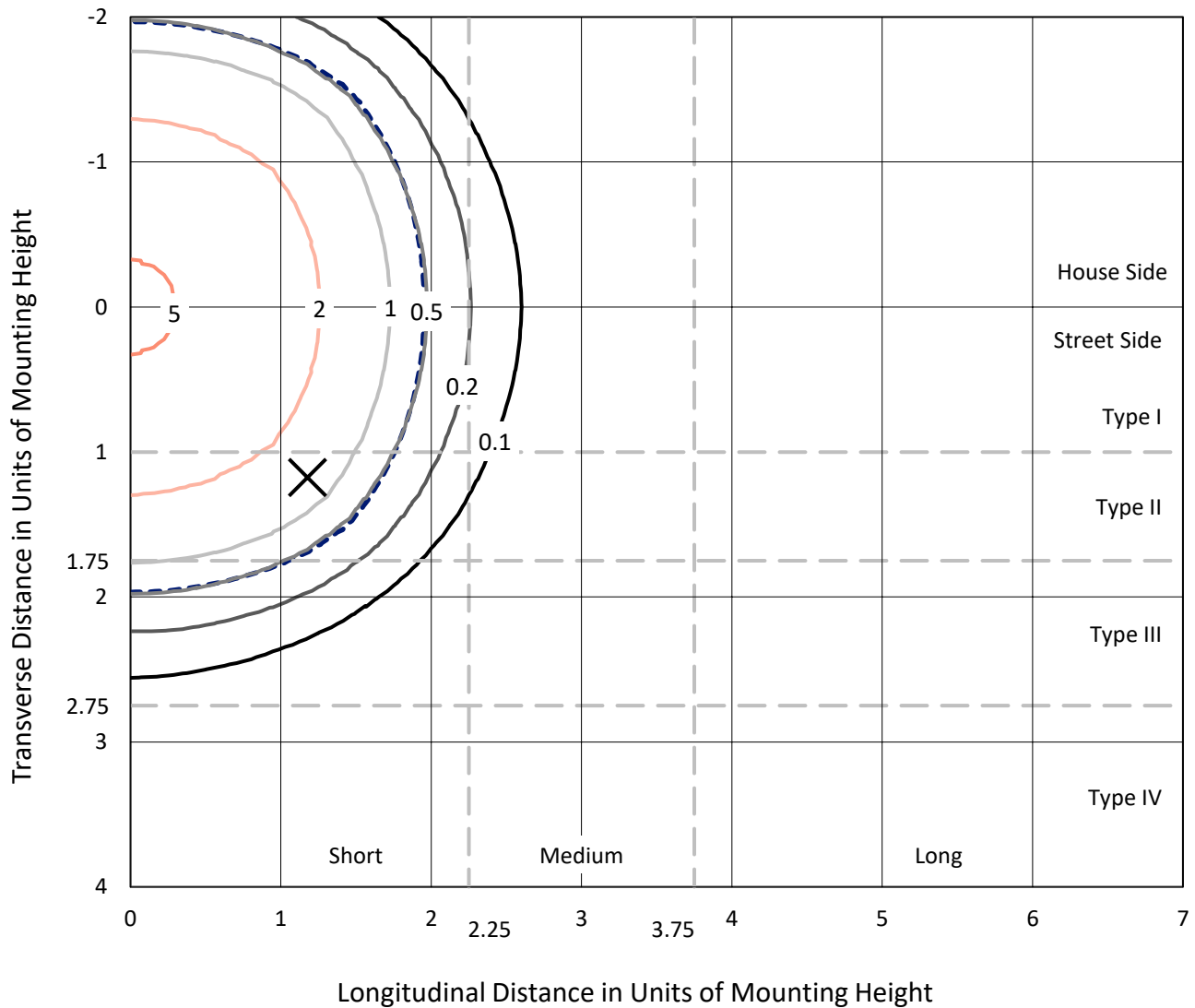


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Iso-Footcandle Lines of Horizontal Illumination

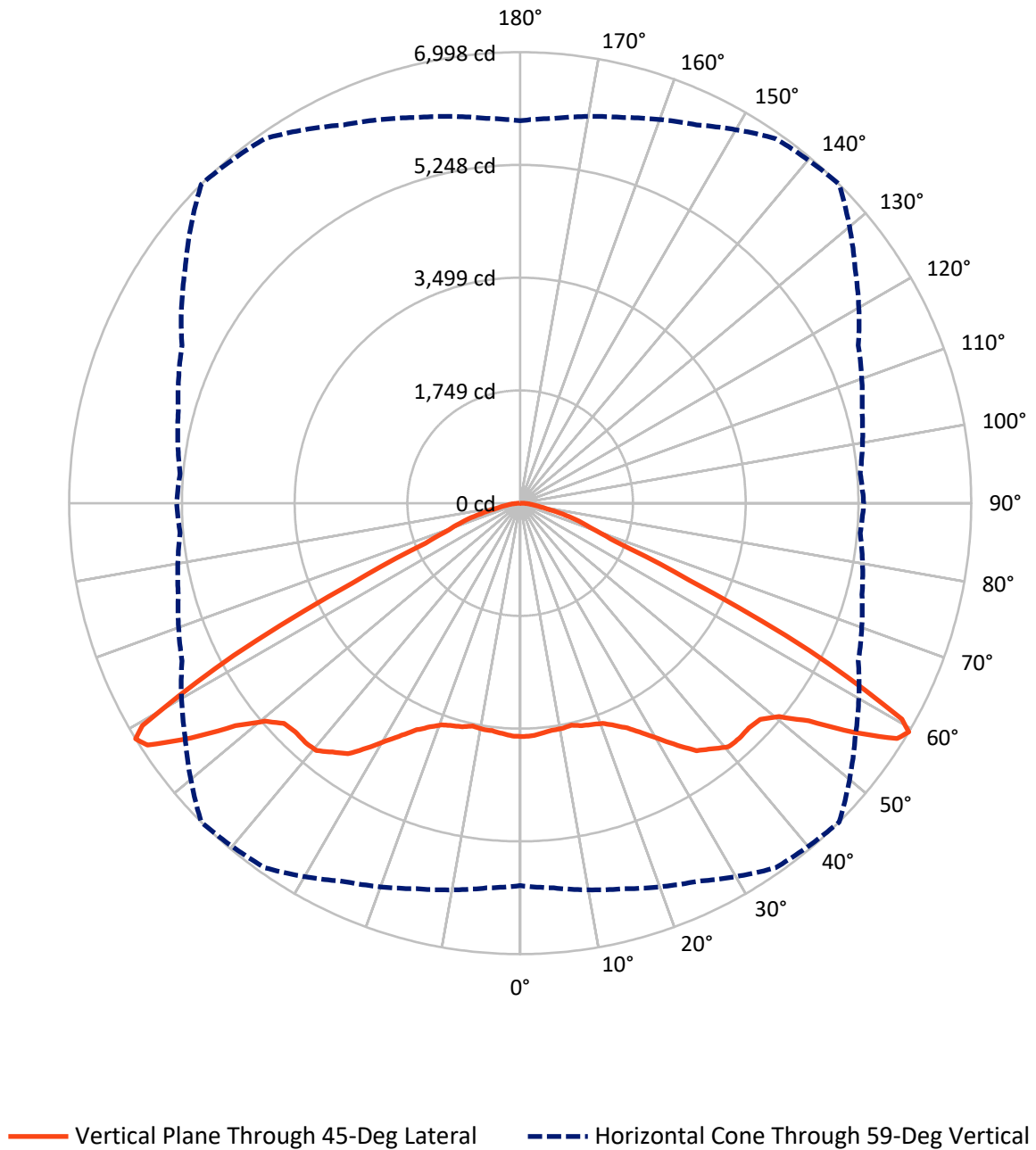
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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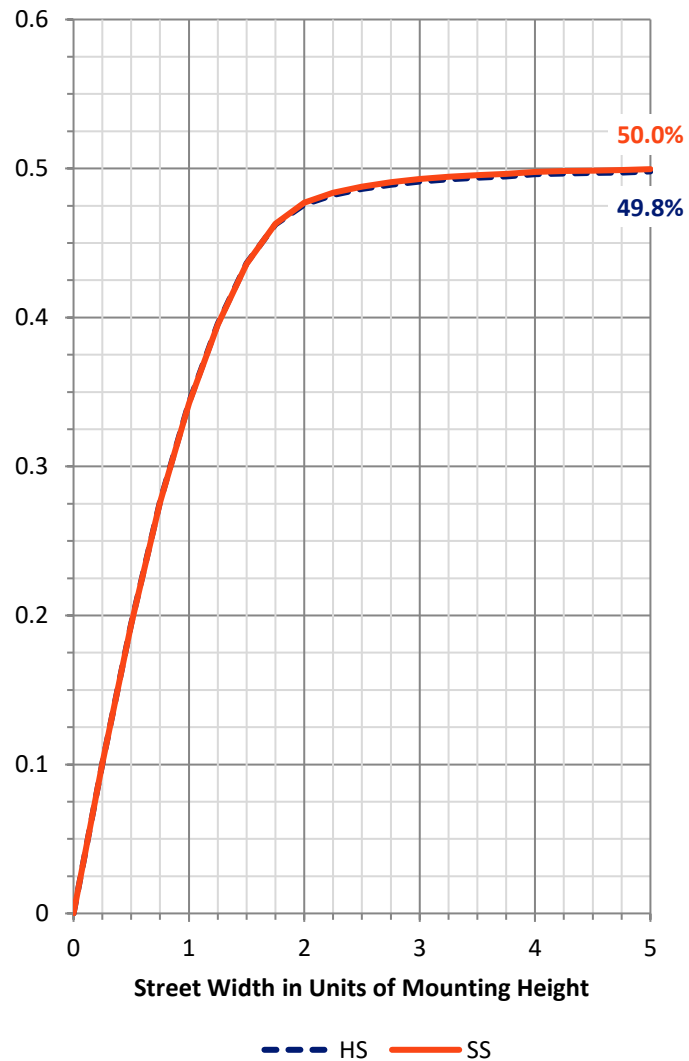
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9374.5	0.0	9374.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9374.5	0.0	9374.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18749.0	0.0	18749.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.4	1.8
10°-20°	1015.2	5.4
20°-30°	1772.7	9.5
30°-40°	2831.2	15.1
40°-50°	3856.7	20.6
50°-60°	5215.3	27.8
60°-70°	2860.1	15.3
70°-80°	731.7	3.9
80°-90°	124.8	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°	18749.0	100.0
0°-180°	18749.0	100.0

Coefficient of Utilization



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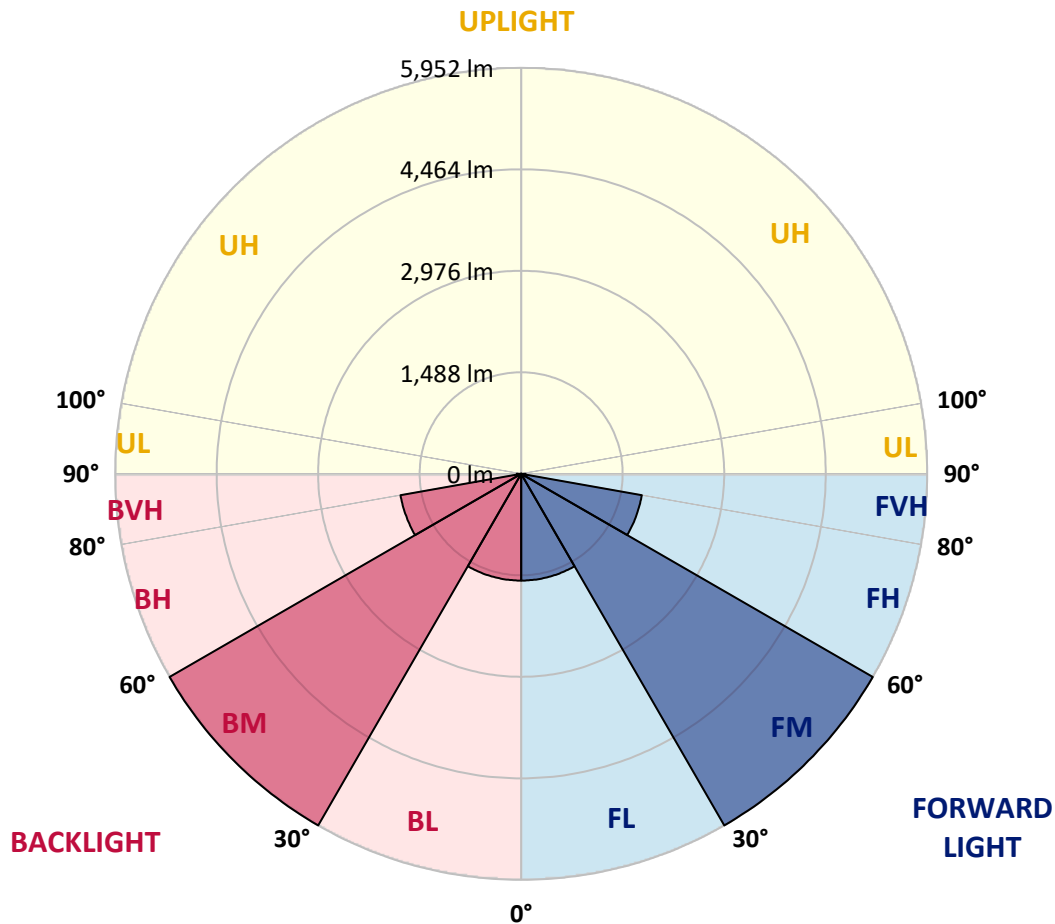
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1564.6	8.3			
FM	(30°-60°)	5951.6	31.7			
FH	(60°-80°)	1795.9	9.6			G1/1800
FVH	(80°-90°)	62.4	0.3			G1/100
BL	(0°-30°)	1564.6	8.3	B3/2500		
BM	(30°-60°)	5951.6	31.7	B4/8500		
BH	(60°-80°)	1795.9	9.6	B3/2500		G1/1800
BVH	(80°-90°)	62.4	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°	3621.4	3621.4	3621.4	3621.4	3621.4	3621.4	3621.4	3621.4	3621.4	3621.4	3621.4
2.5°	3599.8	3626.2	3607.0	3623.8	3621.4	3614.2	3602.2	3595.0	3585.4	3599.8	3575.8
5°	3585.4	3607.0	3628.6	3599.8	3599.8	3585.4	3578.2	3563.7	3563.7	3561.3	3558.9
7.5°	3609.4	3587.8	3578.2	3583.0	3587.8	3556.5	3578.2	3549.3	3525.3	3542.1	3561.3
10°	3587.8	3597.4	3561.3	3578.2	3551.7	3556.5	3542.1	3561.3	3534.9	3534.9	3534.9
12.5°	3609.4	3583.0	3595.0	3583.0	3575.8	3534.9	3554.1	3532.5	3530.1	3554.1	3532.5
15°	3652.6	3609.4	3599.8	3575.8	3583.0	3583.0	3563.7	3566.1	3539.7	3554.1	3558.9
17.5°	3638.2	3614.2	3607.0	3578.2	3602.2	3609.4	3573.3	3549.3	3566.1	3563.7	3561.3
20°	3650.2	3659.9	3652.6	3657.5	3667.1	3647.8	3614.2	3580.6	3558.9	3590.2	3587.8
22.5°	3727.1	3717.5	3712.7	3707.9	3724.7	3744.0	3698.3	3645.4	3645.4	3667.1	3676.7
25°	3789.6	3787.2	3784.8	3806.4	3864.1	3864.1	3806.4	3739.2	3722.3	3736.8	3724.7
27.5°	3880.9	3907.4	3897.8	3936.2	4020.3	4039.5	3962.6	3883.3	3837.7	3820.9	3842.5
30°	4090.0	4058.8	4066.0	4106.8	4181.3	4243.8	4126.1	4041.9	3979.5	3977.1	3986.7
32.5°	4229.4	4253.4	4275.0	4313.5	4431.2	4479.3	4337.5	4200.5	4162.1	4140.5	4147.7
35°	4508.1	4486.5	4481.7	4520.2	4637.9	4717.2	4539.4	4419.2	4368.8	4416.8	4416.8
37.5°	4772.5	4712.4	4666.7	4717.2	4825.3	4835.0	4683.6	4618.7	4592.2	4647.5	4645.1
40°	4897.4	4892.6	4786.9	4815.7	4959.9	4974.3	4832.6	4755.7	4750.8	4822.9	4895.0
42.5°	5027.2	4981.5	4875.8	4895.0	4983.9	4988.8	4854.2	4832.6	4885.4	4955.1	4959.9
45°	5048.8	5010.4	4943.1	4895.0	4959.9	4974.3	4895.0	4909.4	4914.3	4998.4	4998.4
47.5°	5092.1	5087.3	5048.8	5012.8	5024.8	5012.8	4962.3	4983.9	5056.0	5096.9	5077.7
50°	5212.2	5161.8	5200.2	5169.0	5171.4	5205.0	5159.4	5181.0	5166.6	5130.5	5106.5
52.5°	5476.6	5452.5	5486.2	5507.8	5531.8	5608.7	5555.9	5440.5	5332.4	5236.3	5233.9
55°	5863.5	5880.3	5945.2	6055.7	6149.4	6272.0	6017.3	5740.9	5567.9	5416.5	5426.1
57.5°	6228.7	6216.7	6305.6	6557.9	6831.9	6894.4	6394.5	6000.4	5719.3	5623.2	5582.3
59°	5935.6	5993.2	6195.1	6476.2	6906.4	6997.7	6344.1	5789.0	5491.0	5296.3	5330.0
60°	5474.2	5495.8	5676.0	6067.7	6649.3	6805.5	6005.2	5462.2	5065.6	4952.7	5003.2
62.5°	3868.9	3852.1	3981.9	4301.5	4822.9	5034.4	4464.9	4082.8	3832.9	3707.9	3736.8
65°	2057.0	2133.9	2186.8	2386.2	2662.6	2886.1	2650.6	2484.8	2345.4	2242.1	2239.7
67.5°	1389.0	1379.4	1391.4	1437.0	1530.7	1593.2	1588.4	1504.3	1492.3	1473.1	1494.7
70°	1170.3	1165.5	1143.9	1143.9	1163.1	1177.5	1194.3	1203.9	1223.2	1247.2	1244.8
72.5°	949.2	937.2	922.8	915.6	939.6	946.8	968.4	978.0	994.9	992.5	1014.1
75°	627.2	627.2	644.0	663.2	670.5	684.9	687.3	716.1	716.1	720.9	701.7
77.5°	350.8	341.2	353.2	372.5	389.3	415.7	442.2	463.8	475.8	471.0	471.0
80°	204.3	204.3	216.3	237.9	259.5	283.6	302.8	319.6	331.6	326.8	317.2
82.5°	127.4	127.4	139.4	161.0	177.8	192.2	218.7	240.3	254.7	249.9	237.9
85°	64.9	64.9	79.3	93.7	115.3	125.0	122.6	112.9	110.5	98.5	98.5
87.5°	16.8	16.8	24.0	26.4	21.6	24.0	24.0	24.0	24.0	24.0	26.4
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)