

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: P529160

Luminaire Tested: **GALN-SA4B-740-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529160
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-740-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 20275 lumens
Efficiency: N/A
Efficacy: 123.6 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): 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



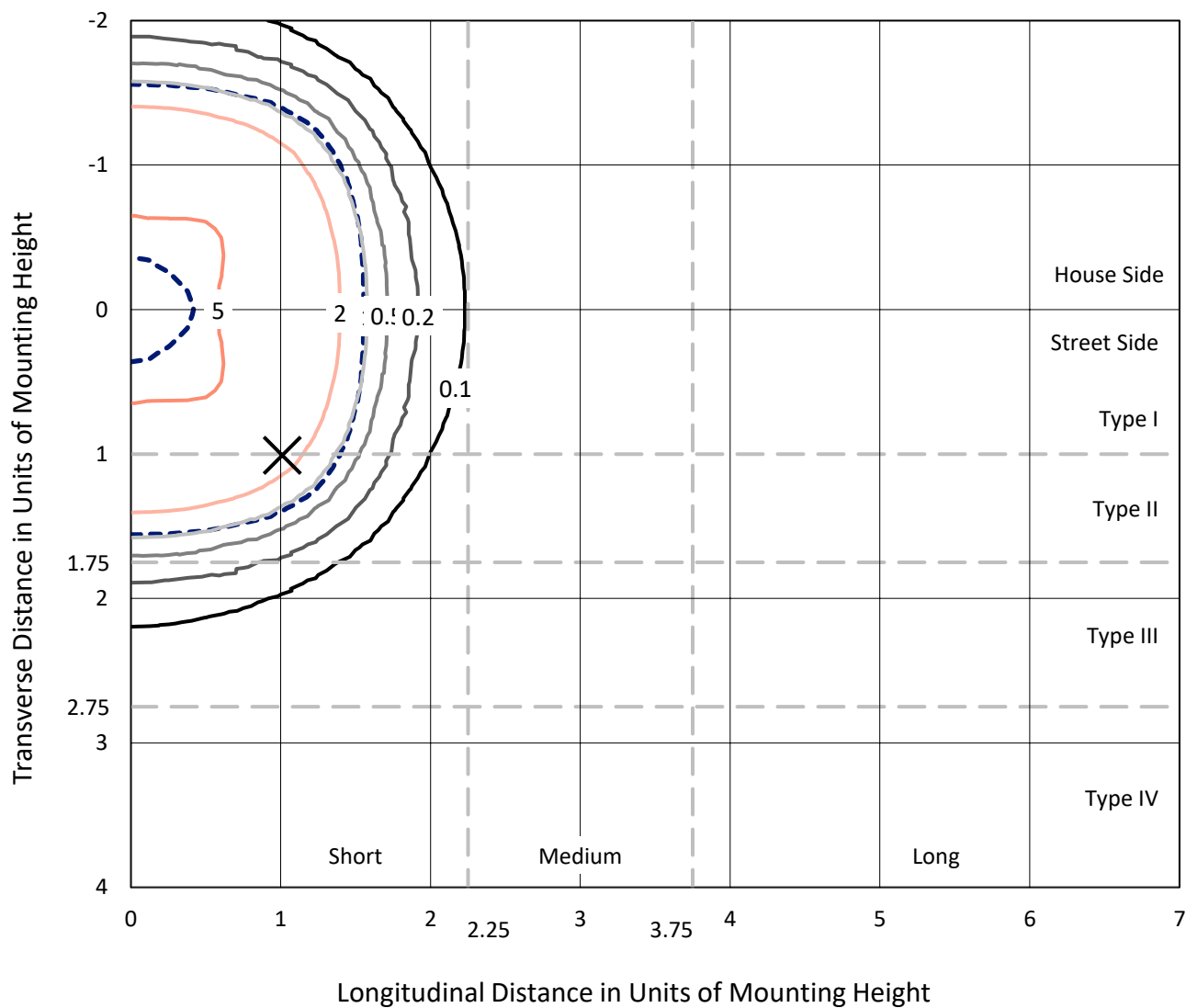
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

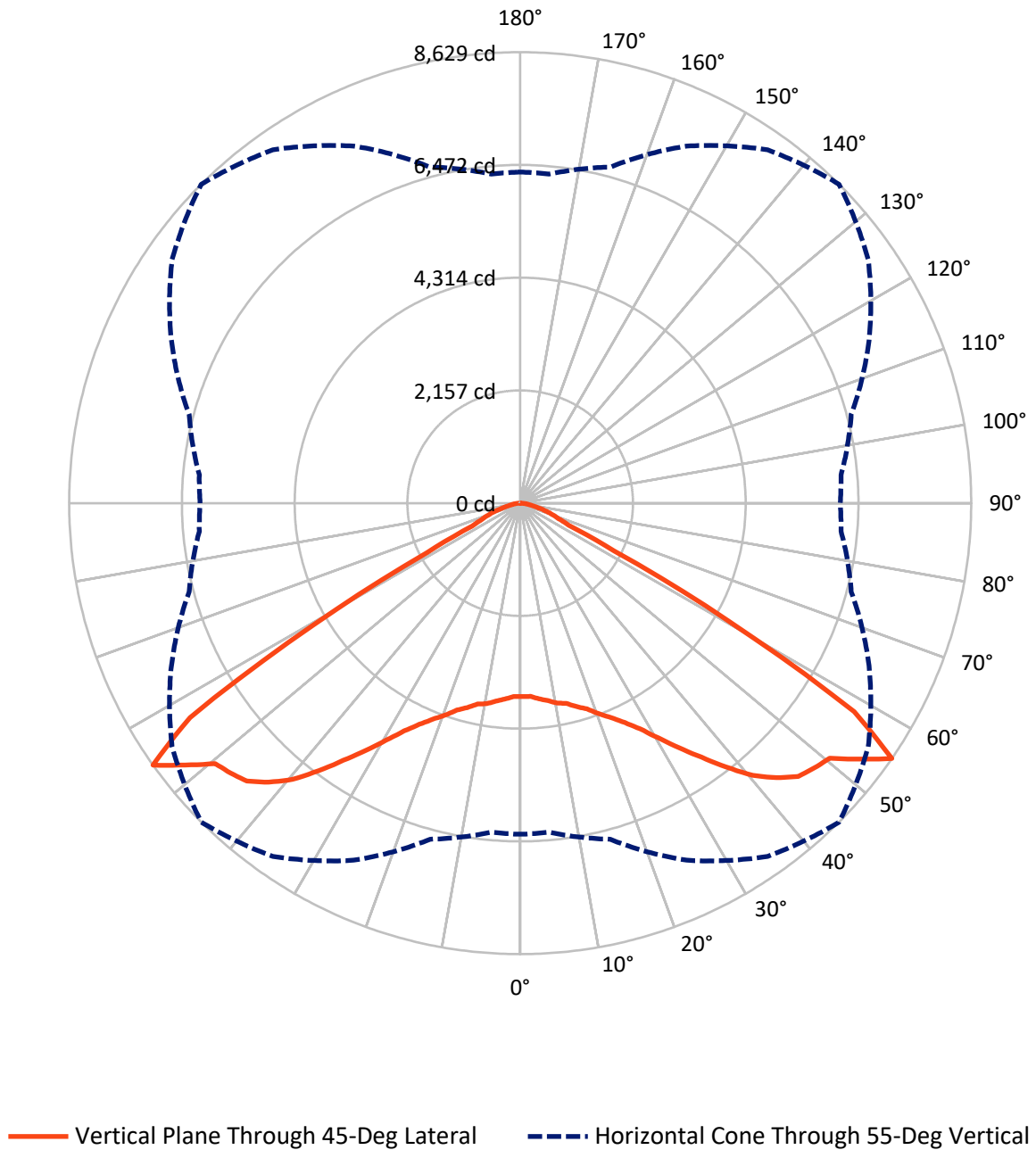
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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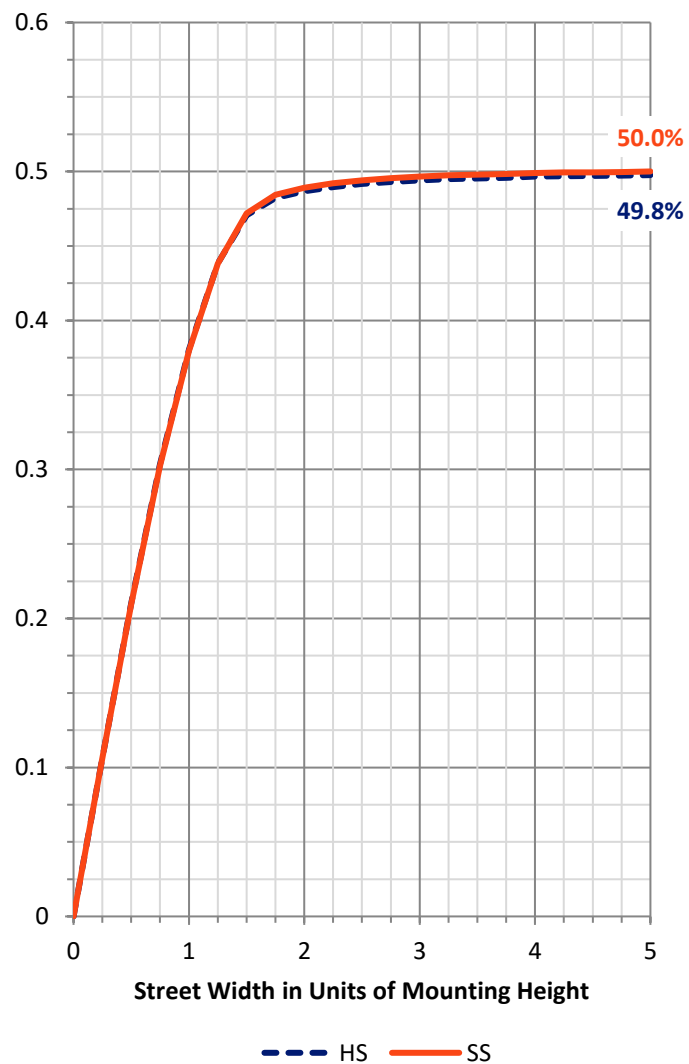
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10137.5	0.0	10137.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10137.5	0.0	10137.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20275.0	0.0	20275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.6	1.8
10°-20°	1145.9	5.7
20°-30°	2136.7	10.5
30°-40°	3577.5	17.6
40°-50°	5566.8	27.5
50°-60°	5780.1	28.5
60°-70°	1225.8	6.0
70°-80°	403.7	2.0
80°-90°	76.9	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°	20275.0	100.0
0°-180°	20275.0	100.0

Coefficient of Utilization



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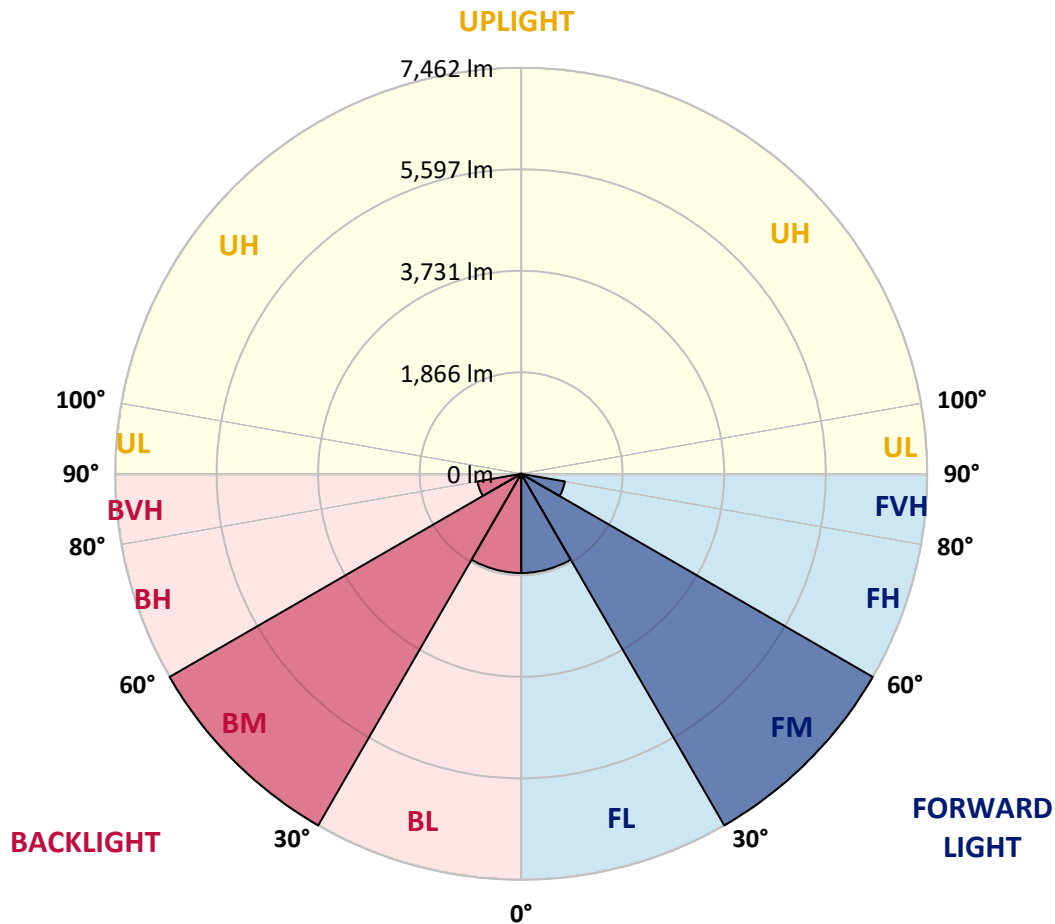
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1822.1	9.0			
FM	(30°-60°)	7462.2	36.8			
FH	(60°-80°)	814.7	4.0			G1/1800
FVH	(80°-90°)	38.4	0.2			G1/100
BL	(0°-30°)	1822.1	9.0	B3/2500		
BM	(30°-60°)	7462.2	36.8	B4/8500		
BH	(60°-80°)	814.7	4.0	B2/1000		G1/1800
BVH	(80°-90°)	38.4	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°	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9
2.5°	3746.0	3728.9	3699.5	3721.5	3738.7	3701.9	3716.6	3724.0	3719.1	3699.5	3706.8
5°	3799.9	3790.1	3765.6	3782.8	3760.7	3760.7	3746.0	3726.4	3755.8	3750.9	3763.2
7.5°	3799.9	3787.7	3836.7	3804.8	3814.6	3814.6	3790.1	3770.5	3785.2	3763.2	3750.9
10°	3875.9	3893.0	3871.0	3878.3	3873.4	3890.6	3853.8	3841.6	3829.3	3822.0	3807.3
12.5°	3966.5	3954.3	3961.6	3956.7	3973.9	3929.8	3907.7	3880.8	3902.8	3871.0	3893.0
15°	4040.0	4032.7	4040.0	4059.6	4042.5	4040.0	4000.8	3973.9	3939.6	3946.9	3912.6
17.5°	4140.5	4133.1	4135.6	4152.7	4150.3	4138.0	4108.6	4057.2	4044.9	4025.3	4003.3
20°	4289.9	4277.7	4272.8	4280.1	4292.4	4302.2	4243.4	4223.8	4182.1	4150.3	4113.5
22.5°	4417.3	4412.4	4432.0	4400.2	4427.1	4456.5	4400.2	4390.4	4287.5	4270.3	4231.1
25°	4593.7	4586.4	4574.1	4620.7	4652.5	4650.1	4596.2	4542.3	4463.9	4444.3	4444.3
27.5°	4779.9	4738.3	4802.0	4814.2	4870.6	4887.7	4841.2	4762.8	4689.3	4647.6	4657.4
30°	5012.6	4973.4	4988.1	5076.3	5149.8	5213.5	5095.9	4980.8	4877.9	4804.4	4792.2
32.5°	5245.4	5206.2	5250.3	5336.0	5483.0	5578.6	5463.4	5262.5	5142.5	5034.7	5056.7
35°	5434.0	5463.4	5534.5	5664.3	5816.2	5970.6	5786.8	5632.5	5461.0	5340.9	5358.1
37.5°	5737.8	5828.5	5884.8	6034.3	6249.9	6409.1	6218.0	6017.1	5833.4	5676.6	5622.7
40°	6134.7	6196.0	6259.7	6436.1	6690.9	6850.1	6668.8	6406.7	6225.4	6063.7	6056.3
42.5°	6570.8	6629.6	6695.8	6911.4	7063.3	7183.3	7016.7	6877.1	6676.2	6548.8	6541.4
45°	7078.0	7036.3	7109.8	7251.9	7379.3	7457.7	7349.9	7281.3	7136.8	7019.2	7006.9
47.5°	7416.1	7379.3	7511.6	7639.0	7658.6	7572.9	7594.9	7658.6	7506.7	7313.2	7374.4
50°	7612.1	7612.1	7700.3	7817.9	7781.1	7670.9	7844.8	7849.7	7697.8	7526.3	7526.3
52.5°	7271.5	7347.5	7597.4	7982.0	8104.5	8136.4	8097.2	7930.6	7533.7	7183.3	7166.2
55°	6335.6	6318.5	6656.6	7538.6	8251.5	8628.8	8129.0	7362.2	6556.1	6161.7	6122.5
57.5°	4120.9	4140.5	4645.2	5544.3	6830.5	7533.7	6690.9	5612.9	4645.2	4101.3	4152.7
60°	1854.6	1920.8	2227.0	2898.3	4003.3	4576.6	4013.1	3045.3	2337.3	2028.6	2055.5
62.5°	1065.7	1078.0	1090.2	1293.6	1705.2	2016.3	1771.3	1367.1	1205.4	1151.5	1151.5
65°	899.1	891.8	894.2	911.4	955.5	1019.2	992.2	955.5	960.4	955.5	948.1
67.5°	764.4	774.2	766.8	779.1	781.5	791.3	808.5	823.2	825.6	830.5	825.6
70°	627.2	629.6	634.5	644.3	646.8	654.1	678.6	690.9	698.2	698.2	708.0
72.5°	480.2	477.7	482.6	492.4	504.7	507.1	529.2	546.3	556.1	543.9	546.3
75°	316.0	318.5	325.8	333.2	350.3	367.5	374.8	392.0	394.4	399.3	387.1
77.5°	188.6	193.5	200.9	215.6	230.3	245.0	262.1	274.4	279.3	274.4	259.7
80°	122.5	122.5	132.3	144.5	161.7	173.9	183.7	193.5	200.9	193.5	188.6
82.5°	75.9	75.9	88.2	102.9	115.1	122.5	137.2	149.4	156.8	151.9	144.5
85°	39.2	41.6	51.4	63.7	73.5	78.4	75.9	68.6	61.2	58.8	53.9
87.5°	12.2	12.2	14.7	14.7	12.2	12.2	14.7	12.2	14.7	14.7	14.7
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)