

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: P529732

Luminaire Tested: **GALN-SA4D-830-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529732
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-SA4D-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA 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: 21904 lumens
Efficiency: N/A
Efficacy: 89.4 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): 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

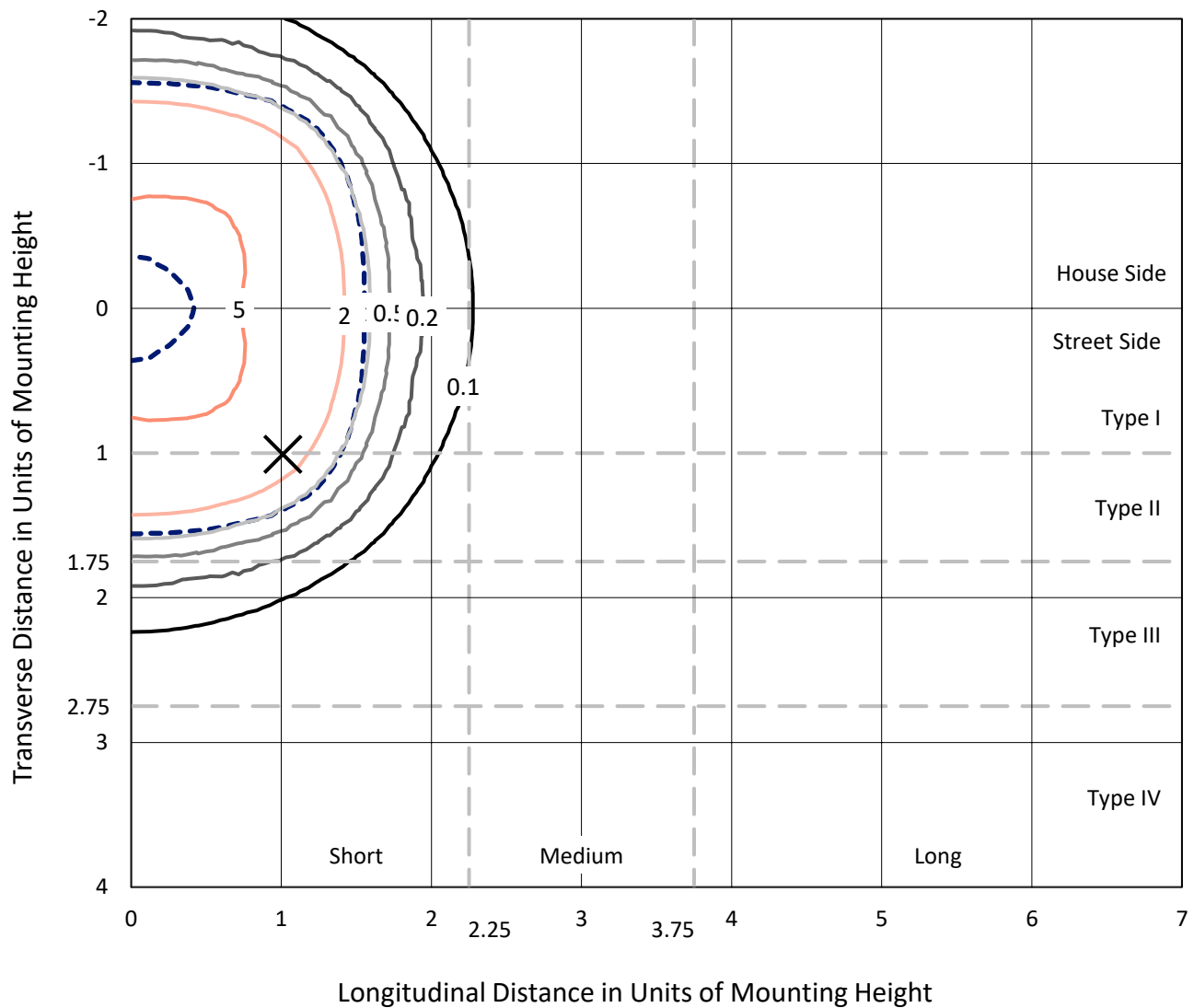


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Iso-Footcandle Lines of Horizontal Illumination

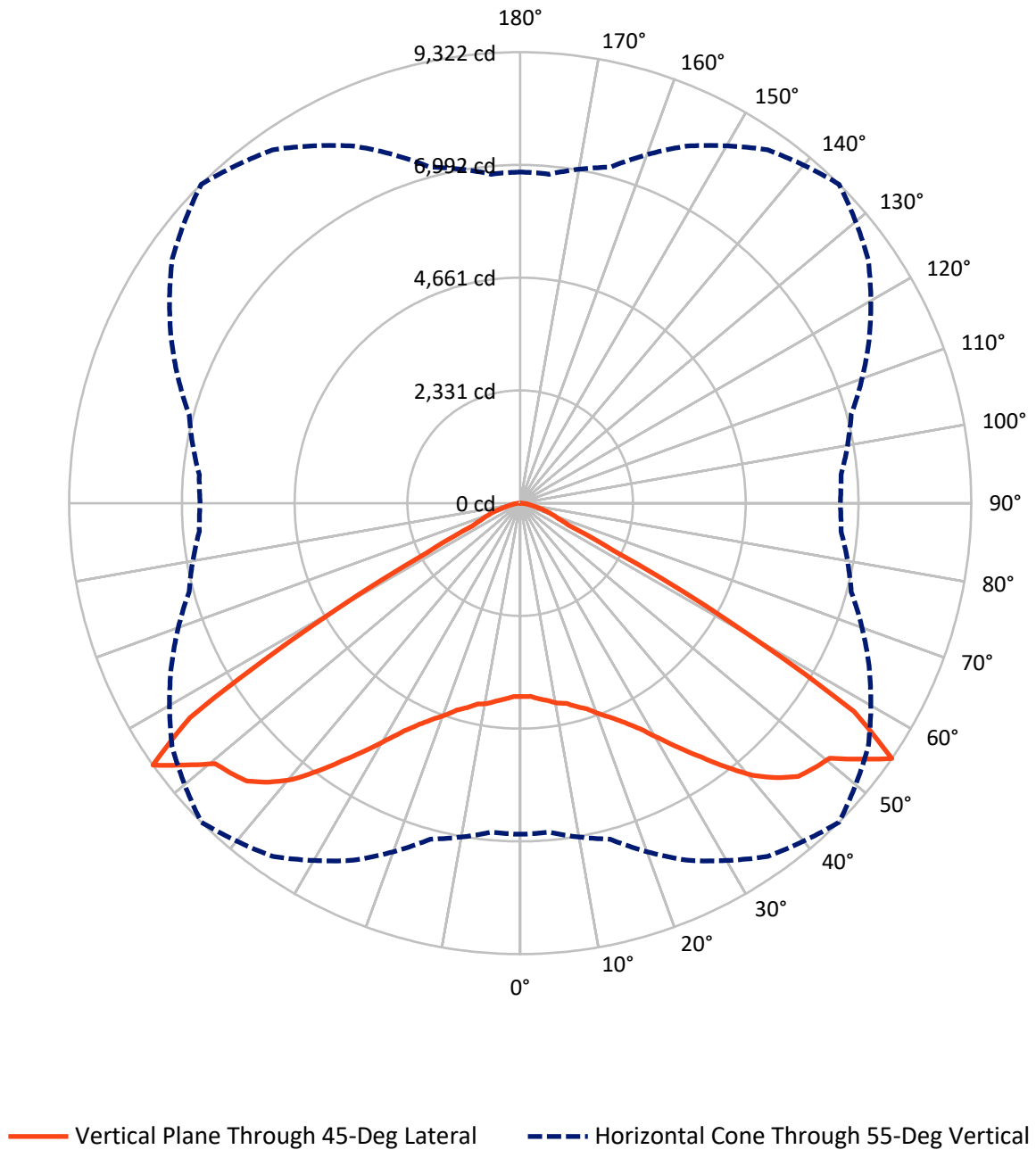
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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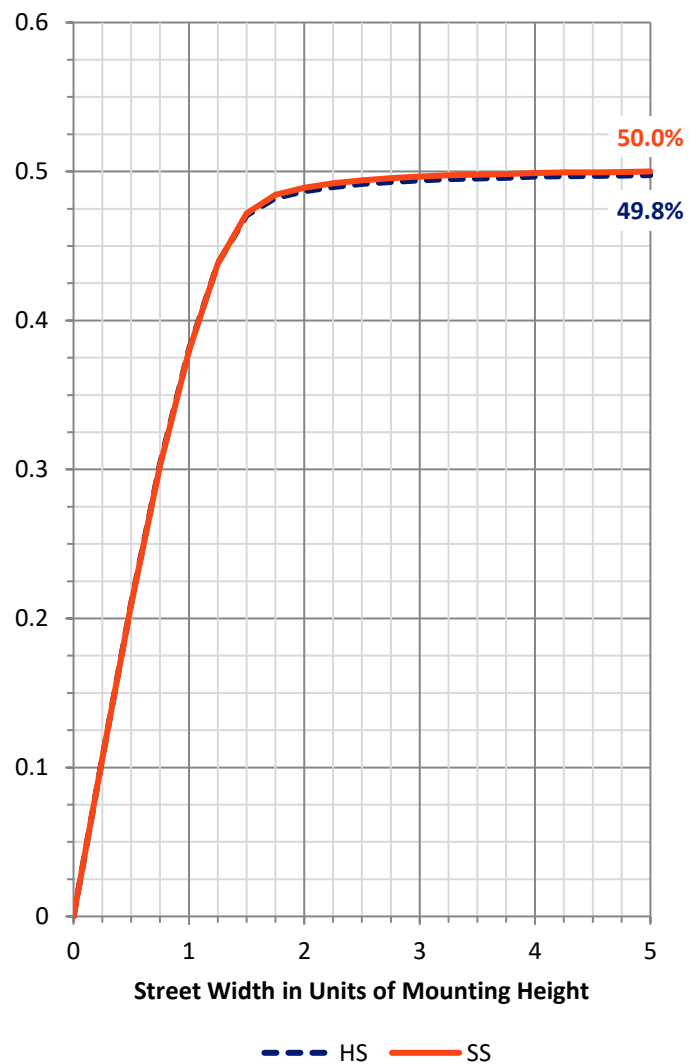
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10952.0	0.0	10952.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10952.0	0.0	10952.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21904.0	0.0	21904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.7	1.8
10°-20°	1237.9	5.7
20°-30°	2308.3	10.5
30°-40°	3864.9	17.6
40°-50°	6014.1	27.5
50°-60°	6244.6	28.5
60°-70°	1324.3	6.0
70°-80°	436.1	2.0
80°-90°	83.1	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°	21904.0	100.0
0°-180°	21904.0	100.0

Coefficient of Utilization



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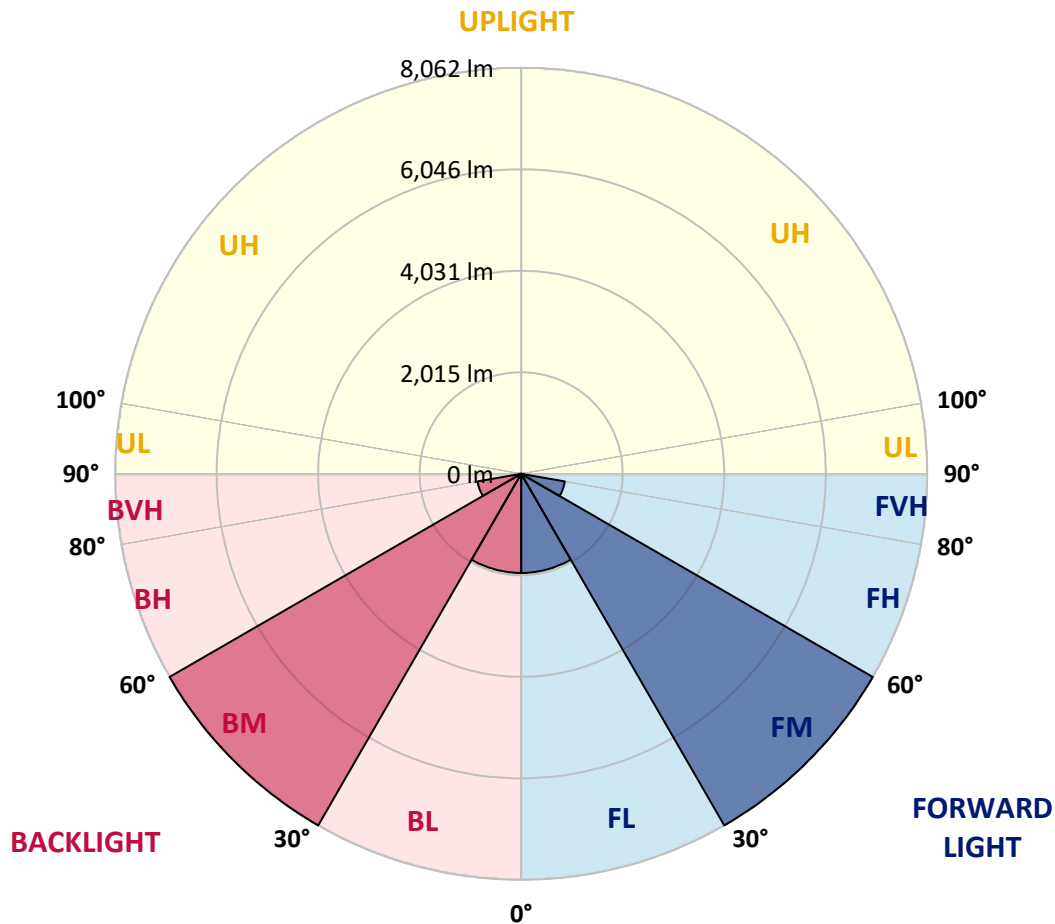
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1968.5	9.0			
FM	(30°-60°)	8061.8	36.8			
FH	(60°-80°)	880.2	4.0			G1/1800
FVH	(80°-90°)	41.5	0.2			G1/100
BL	(0°-30°)	1968.5	9.0	B3/2500		
BM	(30°-60°)	8061.8	36.8	B4/8500		
BH	(60°-80°)	880.2	4.0	B2/1000		G1/1800
BVH	(80°-90°)	41.5	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°	3999.3	3999.3	3999.3	3999.3	3999.3	3999.3	3999.3	3999.3	3999.3	3999.3	3999.3
2.5°	4047.0	4028.5	3996.7	4020.5	4039.0	3999.3	4015.2	4023.2	4017.9	3996.7	4004.6
5°	4105.2	4094.6	4068.2	4086.7	4062.9	4062.9	4047.0	4025.8	4057.6	4052.3	4065.5
7.5°	4105.2	4092.0	4144.9	4110.5	4121.1	4121.1	4094.6	4073.5	4089.3	4065.5	4052.3
10°	4187.3	4205.8	4182.0	4189.9	4184.6	4203.1	4163.4	4150.2	4137.0	4129.0	4113.2
12.5°	4285.2	4272.0	4279.9	4274.6	4293.1	4245.5	4221.7	4192.6	4216.4	4182.0	4205.8
15°	4364.6	4356.7	4364.6	4385.8	4367.3	4364.6	4322.3	4293.1	4256.1	4264.0	4227.0
17.5°	4473.1	4465.2	4467.8	4486.4	4483.7	4470.5	4438.7	4383.1	4369.9	4348.7	4324.9
20°	4634.6	4621.3	4616.1	4624.0	4637.2	4647.8	4584.3	4563.1	4518.1	4483.7	4444.0
22.5°	4772.2	4766.9	4788.1	4753.7	4782.8	4814.6	4753.7	4743.1	4631.9	4613.4	4571.1
25°	4962.8	4954.8	4941.6	4991.9	5026.3	5023.7	4965.4	4907.2	4822.5	4801.3	4801.3
27.5°	5163.9	5118.9	5187.8	5201.0	5261.9	5280.4	5230.1	5145.4	5066.0	5021.0	5031.6
30°	5415.4	5373.0	5388.9	5484.2	5563.6	5632.4	5505.4	5381.0	5269.8	5190.4	5177.2
32.5°	5666.8	5624.5	5672.1	5764.8	5923.6	6026.8	5902.4	5685.4	5555.7	5439.2	5463.0
35°	5870.6	5902.4	5979.2	6119.4	6283.5	6450.3	6251.8	6085.0	5899.8	5770.1	5788.6
37.5°	6198.9	6296.8	6357.7	6519.1	6752.0	6924.1	6717.6	6500.6	6302.1	6132.7	6074.4
40°	6627.6	6693.8	6762.6	6953.2	7228.5	7400.5	7204.6	6921.4	6725.6	6550.9	6542.9
42.5°	7098.8	7162.3	7233.8	7466.7	7630.8	7760.5	7580.5	7429.6	7212.6	7074.9	7067.0
45°	7646.7	7601.7	7681.1	7834.6	7972.2	8056.9	7940.5	7866.3	7710.2	7583.1	7569.9
47.5°	8011.9	7972.2	8115.1	8252.8	8274.0	8181.3	8205.1	8274.0	8109.9	7900.8	7966.9
50°	8223.7	8223.7	8319.0	8446.0	8406.3	8287.2	8475.1	8480.4	8316.3	8131.0	8131.0
52.5°	7855.8	7937.8	8207.8	8623.3	8755.7	8790.1	8747.7	8567.8	8139.0	7760.5	7741.9
55°	6844.7	6826.1	7191.4	8144.3	8914.5	9322.1	8782.1	7953.7	7082.9	6656.8	6614.4
57.5°	4451.9	4473.1	5018.4	5989.8	7379.3	8139.0	7228.5	6063.9	5018.4	4430.8	4486.4
60°	2003.6	2075.1	2406.0	3131.2	4324.9	4944.3	4335.5	3290.0	2525.1	2191.6	2220.7
62.5°	1151.4	1164.6	1177.8	1397.5	1842.2	2178.3	1913.7	1476.9	1302.2	1244.0	1244.0
65°	971.4	963.4	966.1	984.6	1032.3	1101.1	1072.0	1032.3	1037.6	1032.3	1024.3
67.5°	825.8	836.4	828.5	841.7	844.3	854.9	873.5	889.3	892.0	897.3	892.0
70°	677.6	680.2	685.5	696.1	698.8	706.7	733.2	746.4	754.3	754.3	764.9
72.5°	518.8	516.1	521.4	532.0	545.2	547.9	571.7	590.2	600.8	587.6	590.2
75°	341.4	344.1	352.0	360.0	378.5	397.0	405.0	423.5	426.1	431.4	418.2
77.5°	203.8	209.1	217.0	232.9	248.8	264.7	283.2	296.4	301.7	296.4	280.6
80°	132.3	132.3	142.9	156.2	174.7	187.9	198.5	209.1	217.0	209.1	203.8
82.5°	82.1	82.1	95.3	111.2	124.4	132.3	148.2	161.5	169.4	164.1	156.2
85°	42.3	45.0	55.6	68.8	79.4	84.7	82.1	74.1	66.2	63.5	58.2
87.5°	13.2	13.2	15.9	15.9	13.2	13.2	15.9	13.2	15.9	15.9	15.9
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)