

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: P530667

Luminaire Tested: **GALN-SA5D-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21148.1 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 309
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



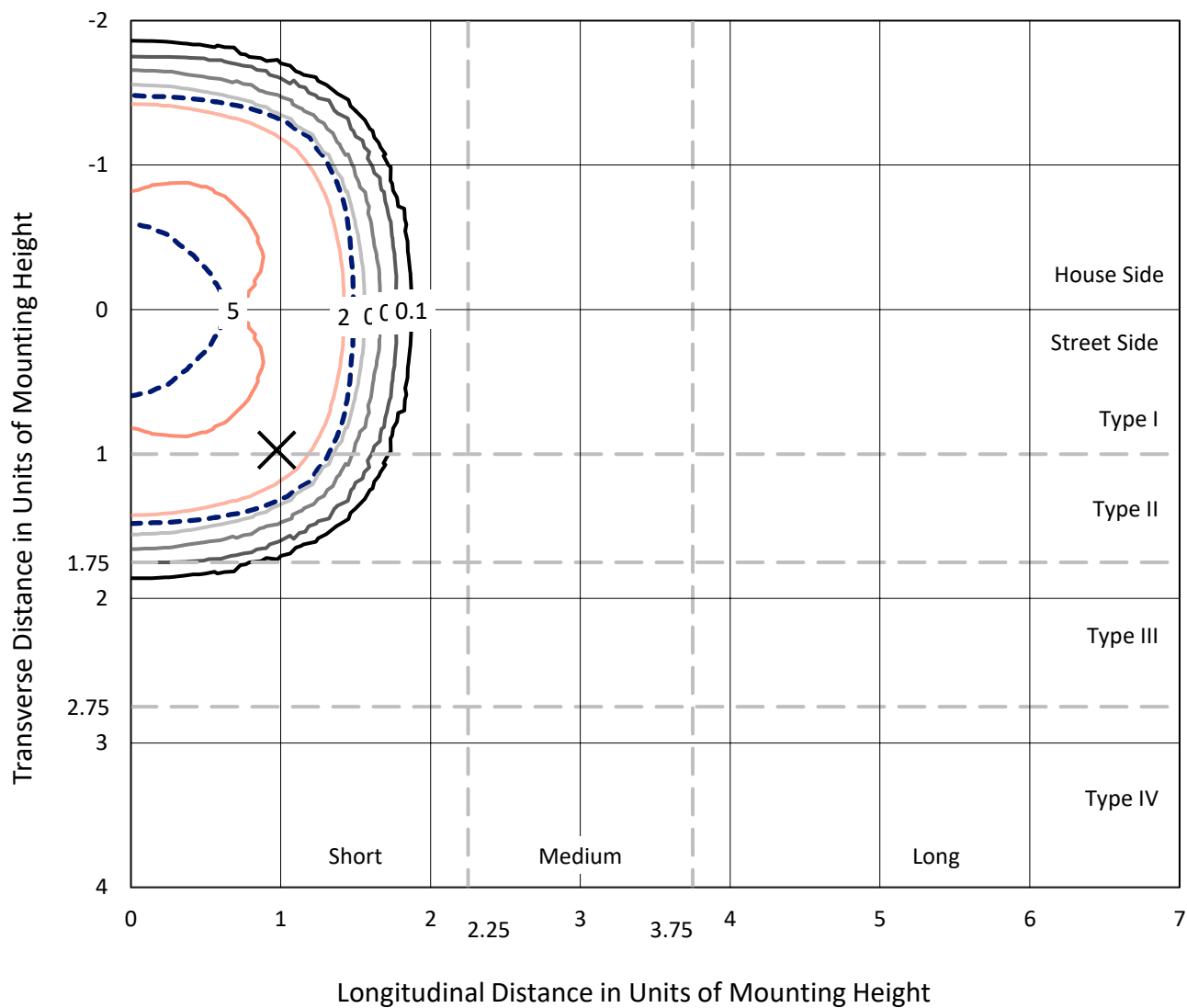
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

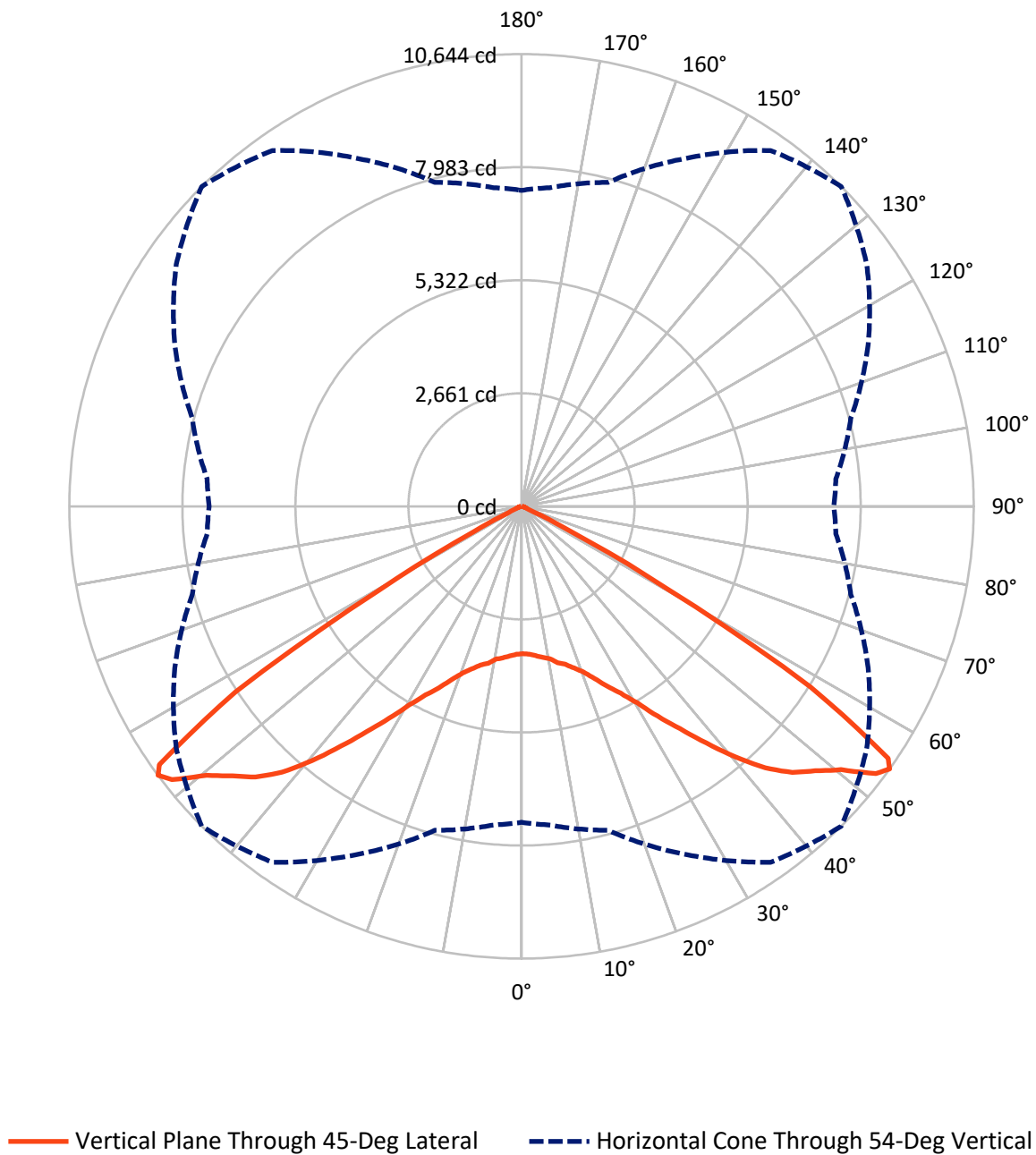
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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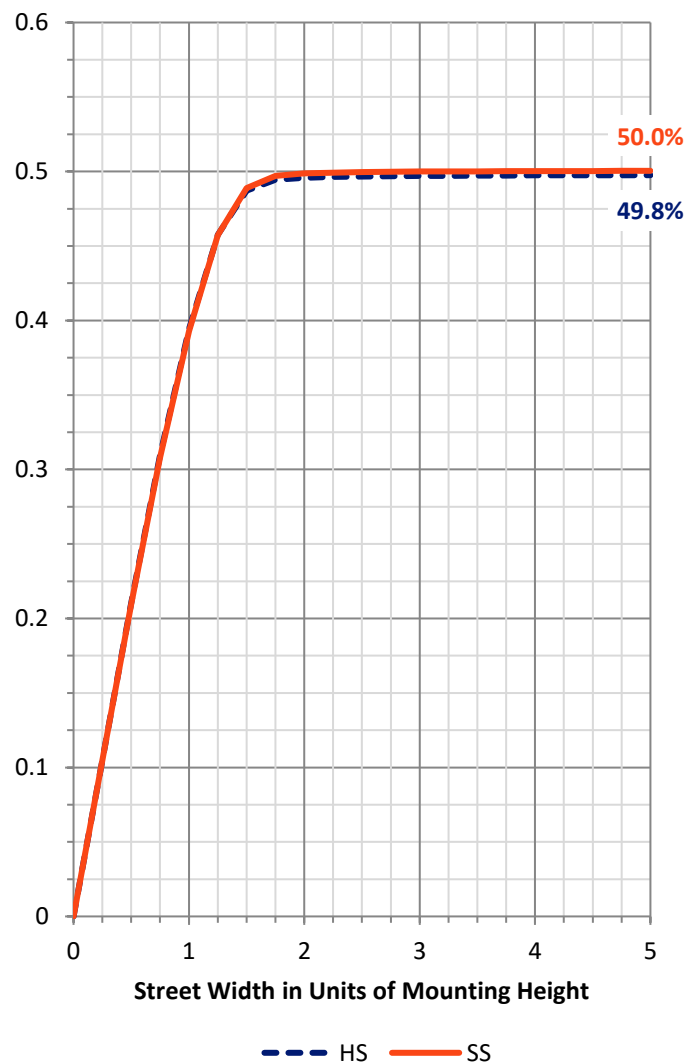
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10574.0	0.0	10574.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10574.0	0.0	10574.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21148.1	0.0	21148.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.4	1.6
10°-20°	1099.1	5.2
20°-30°	2154.2	10.2
30°-40°	3873.6	18.3
40°-50°	6630.9	31.4
50°-60°	6416.0	30.3
60°-70°	549.2	2.6
70°-80°	65.1	0.3
80°-90°	20.4	0.1
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°	21148.1	100.0
0°-180°	21148.1	100.0

Coefficient of Utilization



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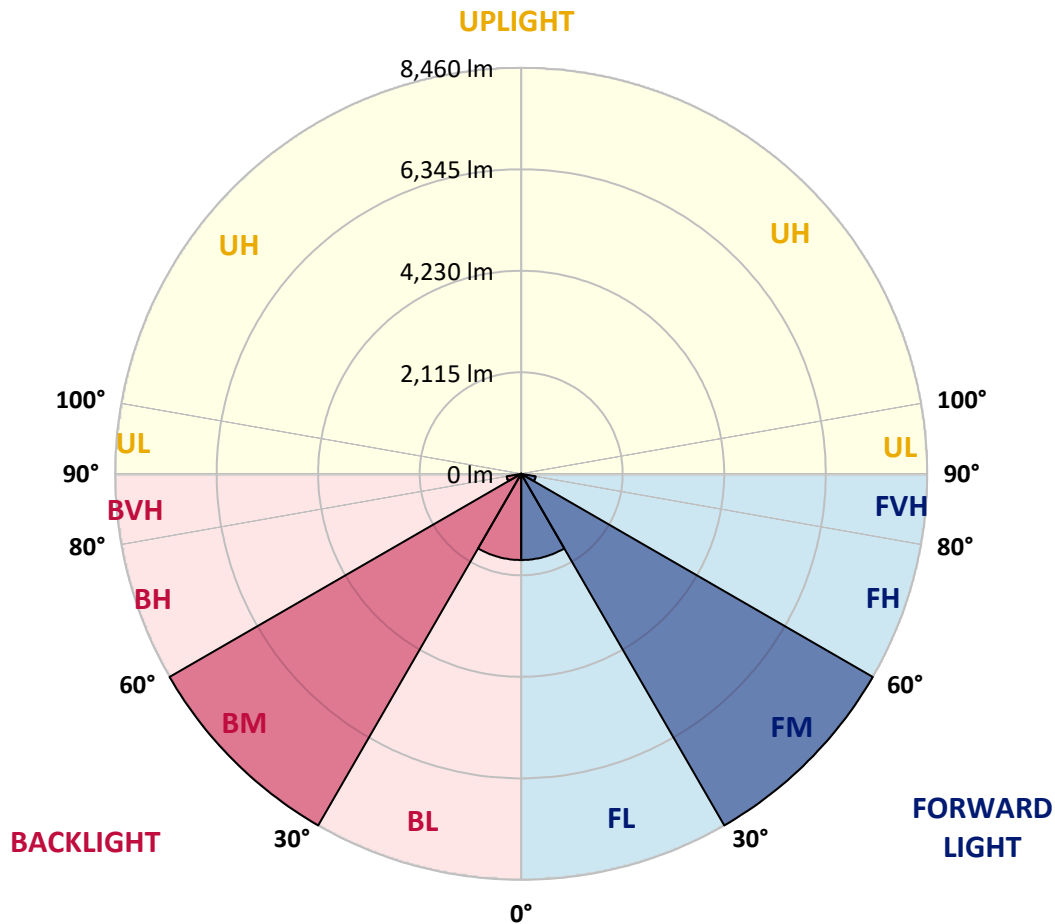
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1796.3	8.5			
FM	(30°-60°)	8460.3	40.0			
FH	(60°-80°)	307.2	1.5			G0/660
FVH	(80°-90°)	10.2	0.0			G1/100
BL	(0°-30°)	1796.3	8.5	B3/2500		
BM	(30°-60°)	8460.3	40.0	B4/8500		
BH	(60°-80°)	307.2	1.5	B1/500		G0/660
BVH	(80°-90°)	10.2	0.0			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°	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6	3467.6
2.5°	3484.4	3504.5	3491.1	3501.1	3501.1	3484.4	3494.4	3454.2	3481.0	3460.9	3464.3
5°	3538.0	3534.6	3534.6	3538.0	3524.6	3531.3	3517.9	3504.5	3494.4	3481.0	3521.2
7.5°	3605.0	3605.0	3581.5	3588.2	3581.5	3591.6	3564.8	3538.0	3527.9	3517.9	3511.2
10°	3668.6	3661.9	3651.9	3682.0	3658.6	3645.2	3631.8	3615.0	3578.2	3564.8	3551.4
12.5°	3762.4	3759.1	3745.7	3775.8	3762.4	3775.8	3725.6	3682.0	3675.3	3631.8	3655.2
15°	3873.0	3903.2	3879.7	3879.7	3873.0	3856.3	3836.2	3816.0	3755.7	3739.0	3742.3
17.5°	4017.1	4007.0	4010.4	4010.4	4043.9	4000.3	3960.1	3909.9	3879.7	3869.7	3836.2
20°	4154.4	4167.8	4164.5	4187.9	4208.0	4161.1	4117.6	4110.9	4027.1	4040.5	3993.6
22.5°	4395.7	4385.6	4402.4	4419.1	4405.7	4399.0	4358.8	4308.6	4234.8	4201.3	4194.6
25°	4650.3	4633.5	4603.4	4643.6	4663.7	4693.8	4616.8	4590.0	4476.1	4425.8	4429.2
27.5°	4868.1	4891.5	4925.0	4941.8	4992.0	4982.0	4928.4	4841.3	4754.1	4697.2	4660.3
30°	5166.2	5179.6	5236.6	5260.1	5347.2	5370.6	5286.9	5186.3	5032.2	4958.5	4915.0
32.5°	5441.0	5534.8	5531.4	5648.7	5789.4	5886.6	5735.8	5581.7	5427.6	5340.5	5263.4
35°	5886.6	5869.8	5967.0	6090.9	6318.8	6429.3	6265.2	6087.6	5853.1	5712.3	5652.0
37.5°	6302.0	6308.7	6439.4	6637.0	6898.4	7069.2	6925.2	6633.7	6392.5	6211.6	6127.8
40°	6905.1	6918.5	7052.5	7277.0	7571.8	7756.1	7588.5	7293.7	6972.1	6831.4	6831.4
42.5°	7612.0	7669.0	7756.1	7950.4	8215.1	8419.4	8268.7	8037.5	7712.5	7531.6	7558.4
45°	8339.0	8365.8	8422.8	8710.9	8834.9	8935.4	8794.7	8687.5	8469.7	8248.6	8211.7
47.5°	9019.1	9029.2	9196.7	9287.2	9384.3	9300.6	9391.0	9250.3	9005.7	8791.3	8747.8
50°	9320.7	9303.9	9541.8	9816.5	9890.2	9742.8	9665.8	9572.0	9200.1	8942.1	8828.2
52.5°	8442.9	8540.0	8982.3	9746.2	10322.4	10446.4	9997.4	9565.3	8871.7	8369.2	8292.1
54°	7437.8	7528.2	7893.4	9025.8	10225.3	10644.1	9920.4	9002.4	8024.1	7427.7	7350.7
55°	6442.7	6342.2	7005.6	8161.5	9769.6	10469.8	9615.5	8275.4	7156.3	6610.2	6503.0
57.5°	3487.7	3504.5	4064.0	5156.2	6864.9	8027.4	7089.3	5598.4	4228.1	3615.0	3561.4
60°	1105.6	1132.4	1377.0	2083.9	3280.0	3916.6	3357.1	2248.1	1554.6	1246.3	1196.1
62.5°	345.1	358.5	392.0	583.0	897.9	1283.2	1005.1	603.1	448.9	412.1	418.8
65°	211.1	211.1	214.4	227.8	268.0	311.6	301.5	264.7	254.6	247.9	244.6
67.5°	137.4	134.0	140.7	150.8	157.5	160.8	170.9	180.9	177.6	170.9	170.9
70°	83.8	80.4	87.1	100.5	103.9	110.6	120.6	134.0	130.7	124.0	127.3
72.5°	46.9	46.9	50.3	60.3	70.4	77.1	87.1	97.2	100.5	97.2	97.2
75°	16.8	20.1	26.8	36.9	43.6	53.6	63.7	73.7	83.8	77.1	73.7
77.5°	6.7	6.7	13.4	23.5	33.5	43.6	60.3	70.4	77.1	70.4	63.7
80°	3.4	3.4	10.1	20.1	30.2	40.2	50.3	60.3	63.7	57.0	50.3
82.5°	3.4	3.4	10.1	20.1	30.2	36.9	53.6	60.3	67.0	60.3	50.3
85°	0.0	3.4	10.1	20.1	26.8	30.2	30.2	20.1	16.8	10.1	10.1
87.5°	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)