

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: P530668

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530668
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-SA5D-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 27729 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - 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



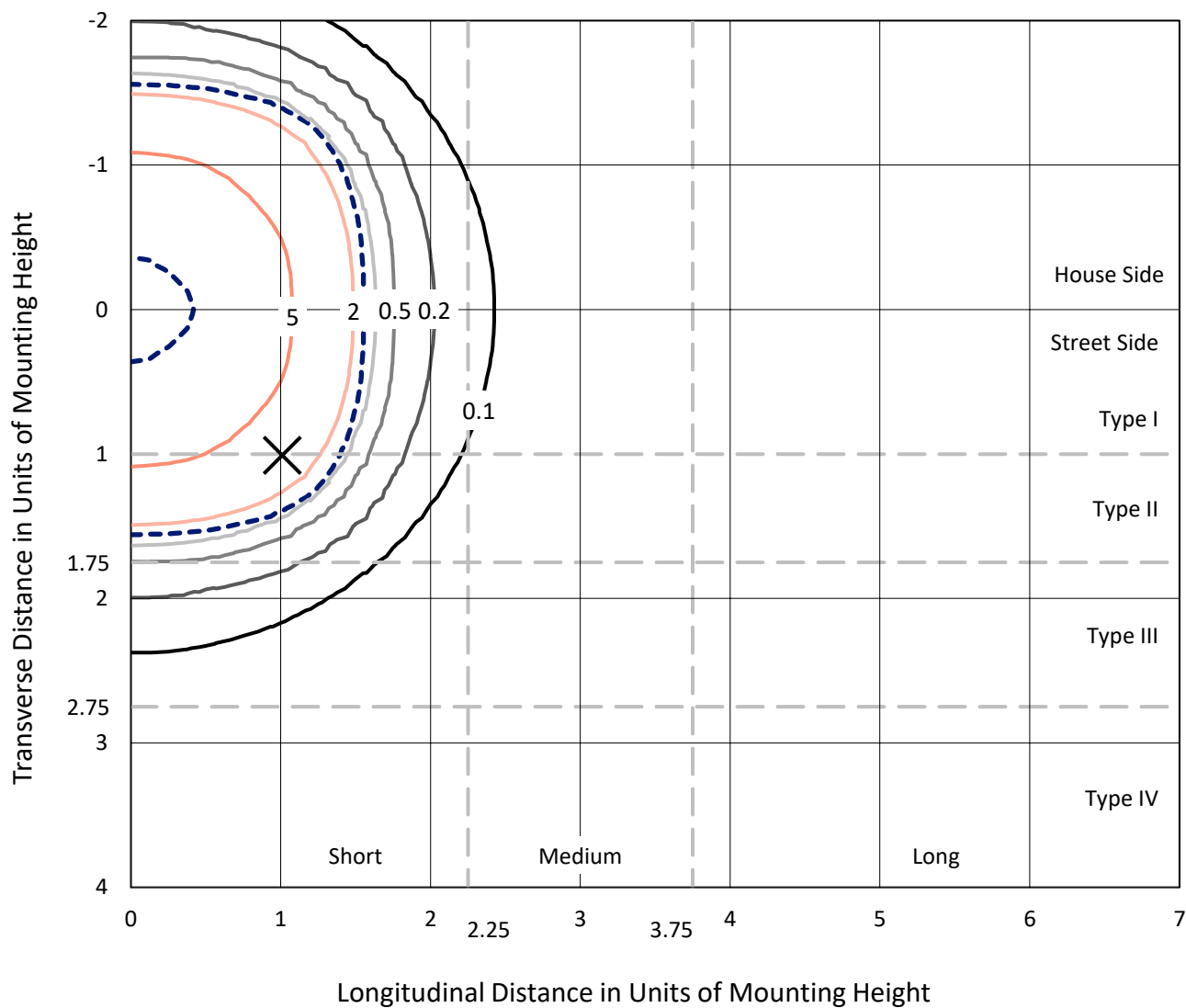
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

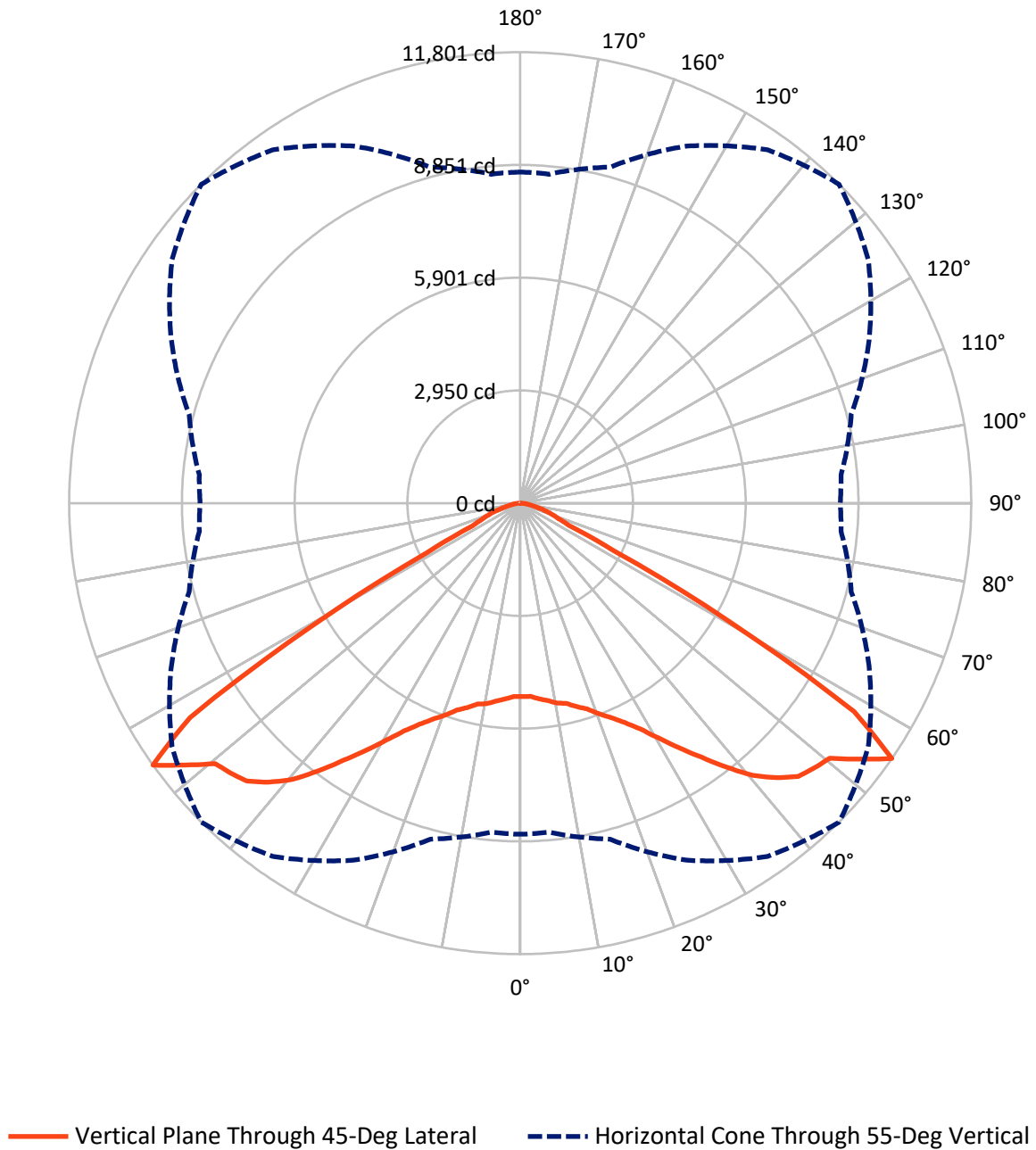


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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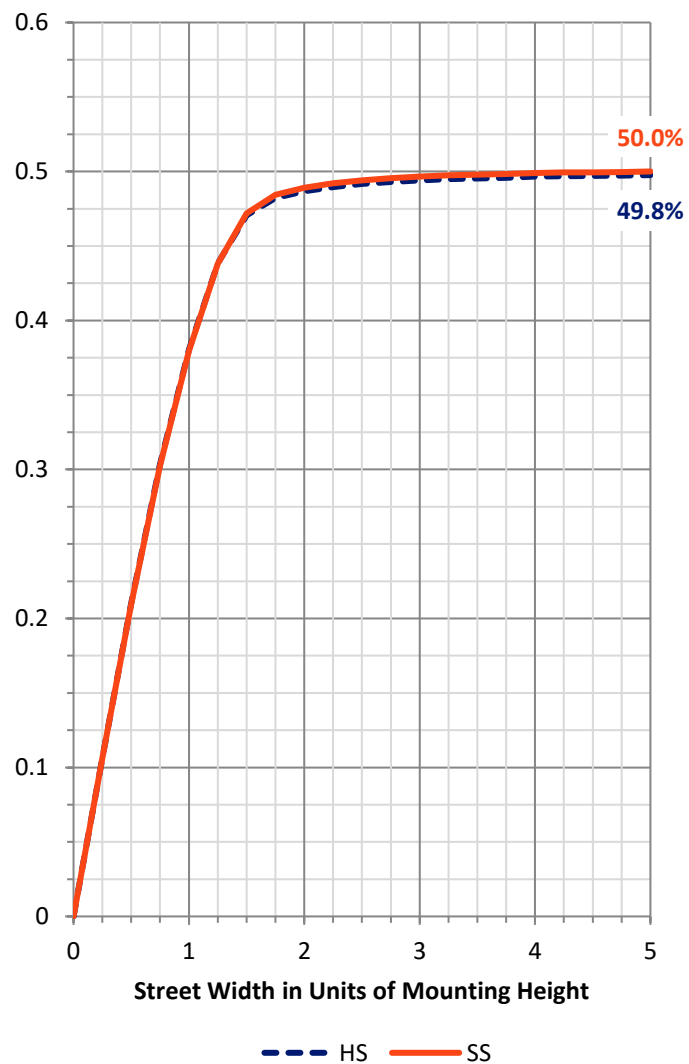
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13864.5	0.0	13864.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13864.5	0.0	13864.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27729.0	0.0	27729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.6	1.8
10°-20°	1567.1	5.7
20°-30°	2922.2	10.5
30°-40°	4892.7	17.6
40°-50°	7613.5	27.5
50°-60°	7905.2	28.5
60°-70°	1676.4	6.0
70°-80°	552.1	2.0
80°-90°	105.1	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°	27729.0	100.0
0°-180°	27729.0	100.0

Coefficient of Utilization



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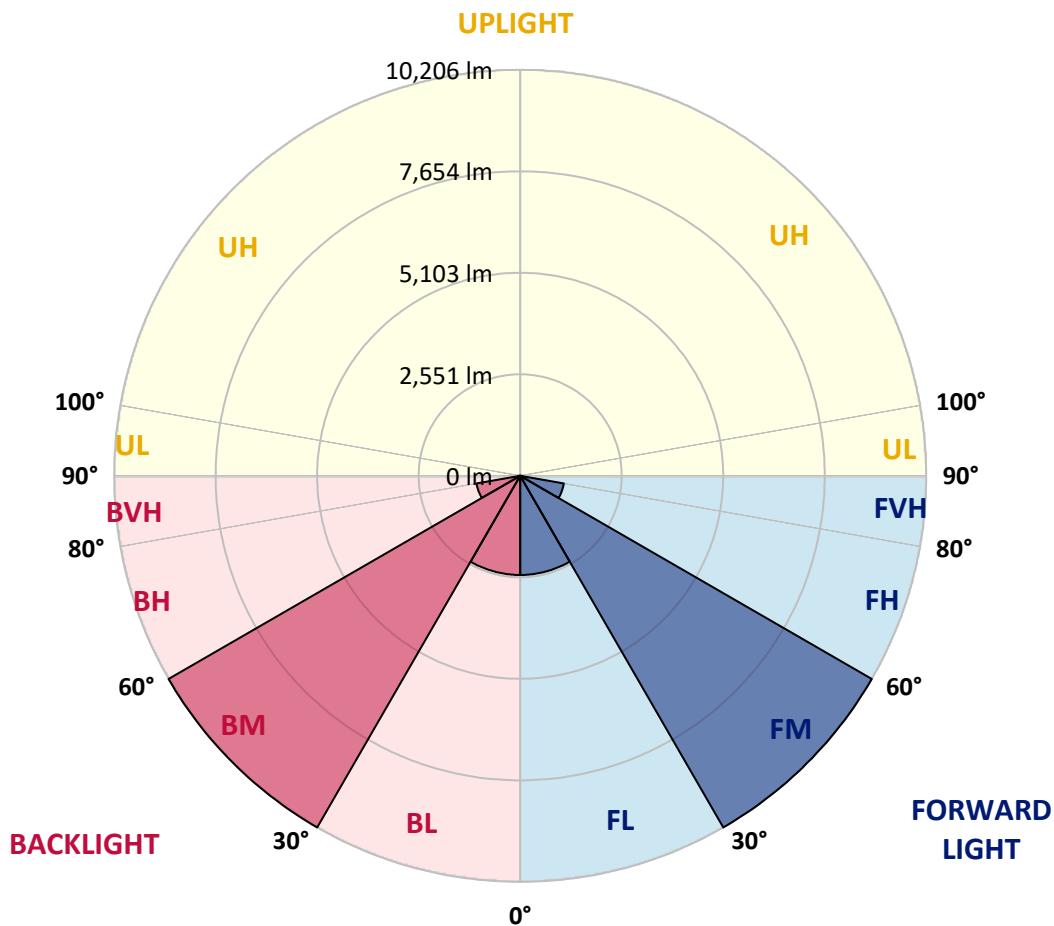
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2492.0	9.0			
FM	(30°-60°)	10205.7	36.8			
FH	(60°-80°)	1114.3	4.0			G1/1800
FVH	(80°-90°)	52.6	0.2			G1/100
BL	(0°-30°)	2492.0	9.0	B3/2500		
BM	(30°-60°)	10205.7	36.8	B5		
BH	(60°-80°)	1114.3	4.0	B3/2500		G1/1800
BVH	(80°-90°)	52.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5062.9	5062.9	5062.9	5062.9	5062.9	5062.9	5062.9	5062.9	5062.9	5062.9	5062.9
2.5°	5123.2	5099.8	5059.6	5089.7	5113.2	5062.9	5083.0	5093.1	5086.4	5059.6	5069.6
5°	5196.9	5183.5	5150.0	5173.5	5143.3	5143.3	5123.2	5096.4	5136.6	5129.9	5146.7
7.5°	5196.9	5180.2	5247.2	5203.6	5217.0	5217.0	5183.5	5156.7	5176.8	5146.7	5129.9
10°	5300.8	5324.3	5294.1	5304.2	5297.5	5320.9	5270.6	5253.9	5237.1	5227.1	5207.0
12.5°	5424.8	5408.0	5418.1	5411.4	5434.8	5374.5	5344.4	5307.5	5337.7	5294.1	5324.3
15°	5525.3	5515.2	5525.3	5552.1	5528.6	5525.3	5471.7	5434.8	5387.9	5398.0	5351.1
17.5°	5662.7	5652.6	5656.0	5679.4	5676.1	5659.3	5619.1	5548.8	5532.0	5505.2	5475.0
20°	5867.1	5850.3	5843.6	5853.7	5870.4	5883.8	5803.4	5776.6	5719.6	5676.1	5625.8
22.5°	6041.3	6034.6	6061.4	6017.9	6054.7	6094.9	6017.9	6004.4	5863.7	5840.3	5786.7
25°	6282.6	6272.5	6255.7	6319.4	6363.0	6359.6	6285.9	6212.2	6105.0	6078.2	6078.2
27.5°	6537.2	6480.2	6567.4	6584.1	6661.2	6684.6	6621.0	6513.8	6413.2	6356.3	6369.7
30°	6855.5	6801.9	6822.0	6942.6	7043.2	7130.3	6969.4	6812.0	6671.2	6570.7	6554.0
32.5°	7173.8	7120.2	7180.5	7297.8	7498.9	7629.5	7472.1	7197.3	7033.1	6885.7	6915.8
35°	7431.8	7472.1	7569.2	7746.8	7954.6	8165.6	7914.3	7703.3	7468.7	7304.5	7328.0
37.5°	7847.3	7971.3	8048.4	8252.8	8547.6	8765.4	8504.1	8229.3	7978.0	7763.6	7689.8
40°	8390.1	8473.9	8561.0	8802.3	9150.8	9368.5	9120.6	8762.1	8514.1	8293.0	8282.9
42.5°	8986.6	9067.0	9157.5	9452.3	9660.1	9824.2	9596.4	9405.4	9130.6	8956.4	8946.4
45°	9680.2	9623.2	9723.7	9918.1	10092.3	10199.5	10052.1	9958.3	9760.6	9599.7	9583.0
47.5°	10142.6	10092.3	10273.2	10447.5	10474.3	10357.0	10387.2	10474.3	10266.5	10001.8	10085.6
50°	10410.6	10410.6	10531.2	10692.1	10641.8	10491.0	10728.9	10735.6	10527.9	10293.3	10293.3
52.5°	9944.9	10048.7	10390.5	10916.6	11084.1	11127.7	11074.1	10846.2	10303.4	9824.2	9800.8
55°	8664.9	8641.4	9103.8	10310.1	11285.1	11801.2	11117.6	10068.8	8966.5	8427.0	8373.4
57.5°	5635.9	5662.7	6352.9	7582.6	9341.7	10303.4	9150.8	7676.4	6352.9	5609.1	5679.4
60°	2536.5	2626.9	3045.8	3963.9	5475.0	6259.1	5488.4	4164.9	3196.6	2774.4	2811.2
62.5°	1457.6	1474.3	1491.1	1769.2	2332.1	2757.6	2422.6	1869.7	1648.5	1574.8	1574.8
65°	1229.7	1219.7	1223.0	1246.5	1306.8	1393.9	1357.0	1306.8	1313.5	1306.8	1296.7
67.5°	1045.4	1058.8	1048.8	1065.5	1068.9	1082.3	1105.7	1125.8	1129.2	1135.9	1129.2
70°	857.8	861.1	867.8	881.2	884.6	894.6	928.1	944.9	954.9	954.9	968.4
72.5°	656.7	653.4	660.1	673.5	690.2	693.6	723.8	747.2	760.6	743.9	747.2
75°	432.2	435.6	445.6	455.7	479.1	502.6	512.7	536.1	539.5	546.2	529.4
77.5°	258.0	264.7	274.8	294.9	315.0	335.1	358.5	375.3	382.0	375.3	355.2
80°	167.5	167.5	180.9	197.7	221.1	237.9	251.3	264.7	274.8	264.7	258.0
82.5°	103.9	103.9	120.6	140.7	157.5	167.5	187.6	204.4	214.4	207.7	197.7
85°	53.6	57.0	70.4	87.1	100.5	107.2	103.9	93.8	83.8	80.4	73.7
87.5°	16.8	16.8	20.1	20.1	16.8	16.8	20.1	16.8	20.1	20.1	20.1
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)