

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: P533241

Luminaire Tested: **GALN-SA8C-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533241
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-SA8C-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA 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: 30991 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 429
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



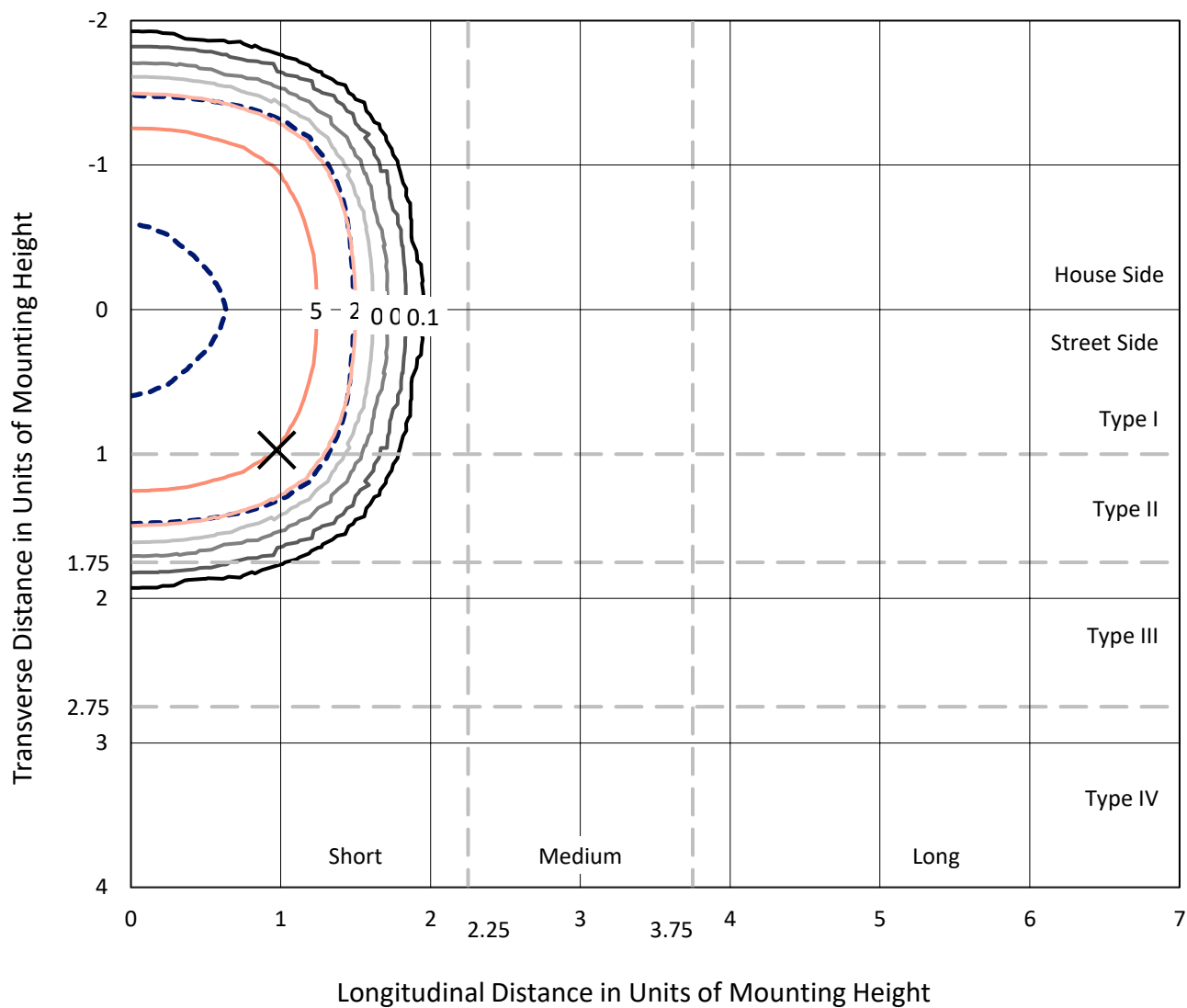
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

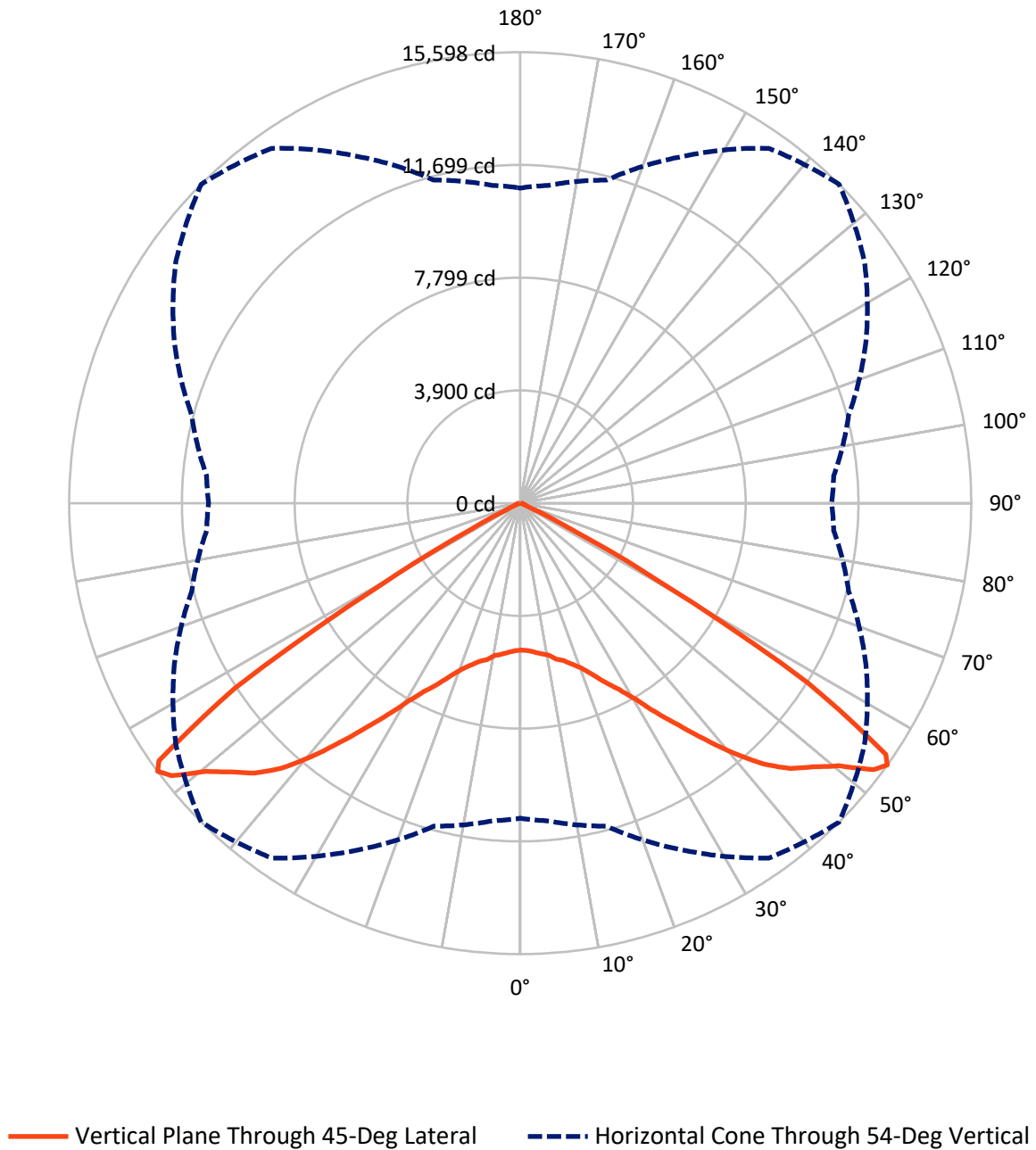


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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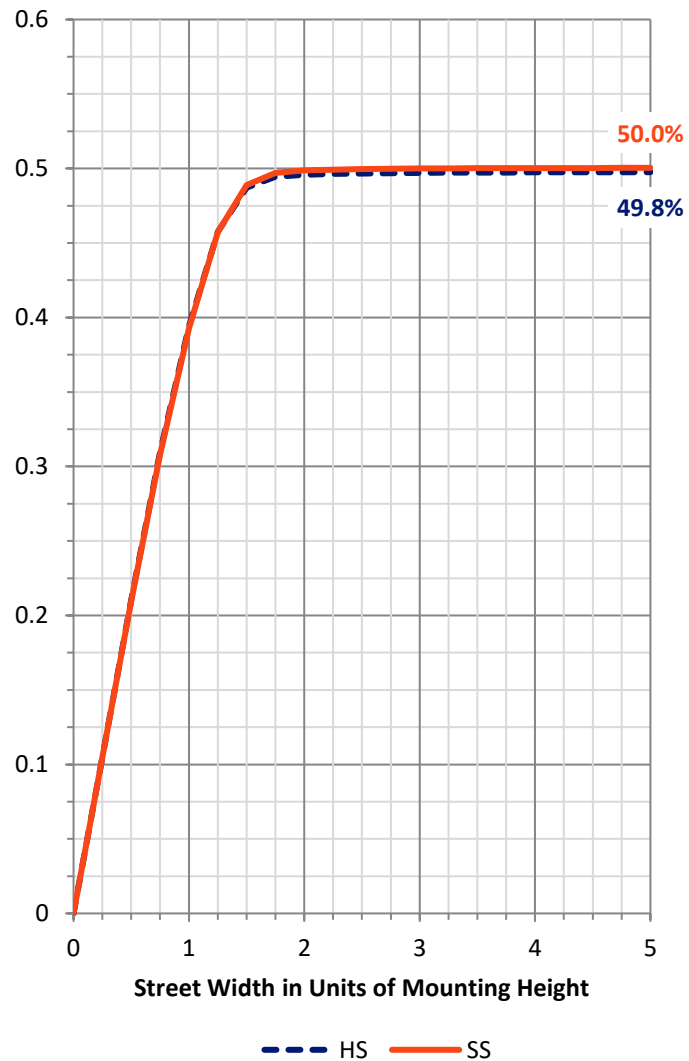
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15495.5	0.0	15495.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15495.5	0.0	15495.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30991.0	0.0	30991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.4	1.6
10°-20°	1610.6	5.2
20°-30°	3156.8	10.2
30°-40°	5676.6	18.3
40°-50°	9717.2	31.4
50°-60°	9402.3	30.3
60°-70°	804.9	2.6
70°-80°	95.4	0.3
80°-90°	29.9	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°	30991.0	100.0
0°-180°	30991.0	100.0

Coefficient of Utilization



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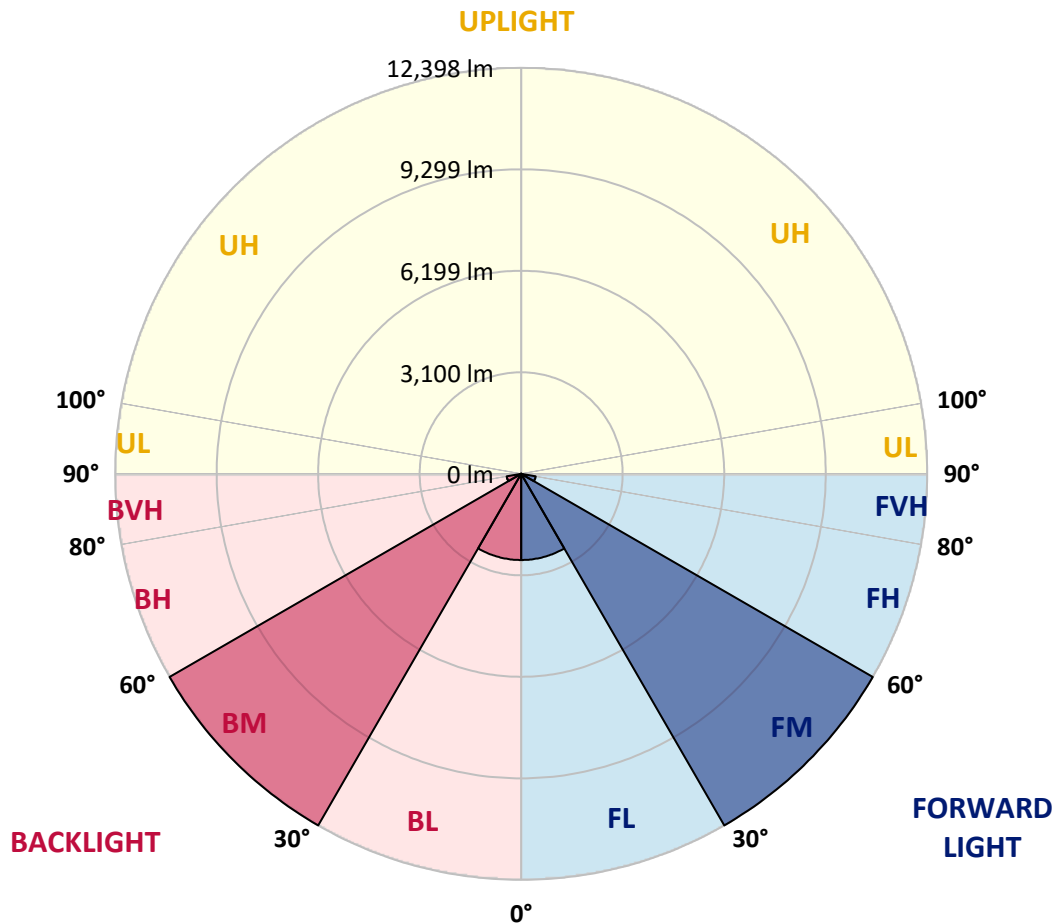
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2632.4	8.5			
FM	(30°-60°)	12398.0	40.0			
FH	(60°-80°)	450.1	1.5			G0/660
FVH	(80°-90°)	15.0	0.0			G1/100
BL	(0°-30°)	2632.4	8.5	B4/5000		
BM	(30°-60°)	12398.0	40.0	B5		
BH	(60°-80°)	450.1	1.5	B1/500		G0/660
BVH	(80°-90°)	15.0	0.0			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°	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6
2.5°	5106.1	5135.6	5115.9	5130.7	5130.7	5106.1	5120.8	5061.9	5101.2	5071.7	5076.6
5°	5184.7	5179.8	5179.8	5184.7	5165.0	5174.8	5155.2	5135.6	5120.8	5101.2	5160.1
7.5°	5282.9	5282.9	5248.5	5258.3	5248.5	5263.2	5223.9	5184.7	5169.9	5155.2	5145.4
10°	5376.1	5366.3	5351.6	5395.8	5361.4	5341.8	5322.1	5297.6	5243.6	5223.9	5204.3
12.5°	5513.6	5508.7	5489.1	5533.3	5513.6	5533.3	5459.6	5395.8	5386.0	5322.1	5356.5
15°	5675.6	5719.8	5685.5	5685.5	5675.6	5651.1	5621.6	5592.2	5503.8	5479.2	5484.2
17.5°	5886.8	5872.0	5876.9	5876.9	5926.0	5862.2	5803.3	5729.6	5685.5	5670.7	5621.6
20°	6088.1	6107.7	6102.8	6137.1	6166.6	6097.9	6034.0	6024.2	5901.5	5921.1	5852.4
22.5°	6441.6	6426.8	6451.4	6475.9	6456.3	6446.5	6387.5	6313.9	6205.9	6156.8	6147.0
25°	6814.7	6790.1	6746.0	6804.9	6834.3	6878.5	6765.6	6726.3	6559.4	6485.7	6490.6
27.5°	7133.8	7168.2	7217.3	7241.8	7315.5	7300.8	7222.2	7094.5	6966.9	6883.4	6829.4
30°	7570.8	7590.4	7673.9	7708.3	7835.9	7870.3	7747.5	7600.2	7374.4	7266.4	7202.6
32.5°	7973.4	8110.9	8105.9	8277.8	8484.0	8626.4	8405.4	8179.6	7953.7	7826.1	7713.2
35°	8626.4	8601.8	8744.2	8925.9	9259.7	9421.7	9181.2	8921.0	8577.3	8371.1	8282.7
37.5°	9235.2	9245.0	9436.5	9726.2	10109.1	10359.5	10148.4	9721.2	9367.7	9102.6	8979.9
40°	10118.9	10138.6	10335.0	10663.9	11096.0	11366.0	11120.5	10688.5	10217.1	10010.9	10010.9
42.5°	11154.9	11238.3	11366.0	11650.8	12038.6	12338.1	12117.2	11778.4	11302.2	11037.0	11076.3
45°	12220.3	12259.6	12343.0	12765.3	12946.9	13094.2	12888.0	12730.9	12411.8	12087.7	12033.7
47.5°	13217.0	13231.7	13477.2	13609.7	13752.1	13629.4	13761.9	13555.7	13197.3	12883.1	12819.3
50°	13658.8	13634.3	13982.9	14385.5	14493.5	14277.5	14164.5	14027.1	13482.1	13104.0	12937.1
52.5°	12372.5	12514.9	13163.0	14282.4	15126.8	15308.5	14650.6	14017.2	13000.9	12264.5	12151.6
54°	10899.6	11032.1	11567.3	13226.8	14984.5	15598.2	14537.7	13192.4	11758.8	10884.8	10771.9
55°	9441.4	9294.1	10266.2	11960.1	14316.7	15342.9	14090.9	12127.0	10487.2	9686.9	9529.8
57.5°	5111.0	5135.6	5955.5	7556.1	10060.0	11763.7	10389.0	8204.1	6196.1	5297.6	5219.0
60°	1620.2	1659.5	2017.9	3053.8	4806.6	5739.5	4919.5	3294.4	2278.1	1826.4	1752.8
62.5°	505.7	525.3	574.4	854.3	1315.8	1880.4	1472.9	883.7	657.9	603.9	613.7
65°	309.3	309.3	314.2	333.9	392.8	456.6	441.9	387.9	373.1	363.3	358.4
67.5°	201.3	196.4	206.2	220.9	230.8	235.7	250.4	265.1	260.2	250.4	250.4
70°	122.7	117.8	127.7	147.3	152.2	162.0	176.7	196.4	191.5	181.7	186.6
72.5°	68.7	68.7	73.6	88.4	103.1	112.9	127.7	142.4	147.3	142.4	142.4
75°	24.5	29.5	39.3	54.0	63.8	78.6	93.3	108.0	122.7	112.9	108.0
77.5°	9.8	9.8	19.6	34.4	49.1	63.8	88.4	103.1	112.9	103.1	93.3
80°	4.9	4.9	14.7	29.5	44.2	58.9	73.6	88.4	93.3	83.5	73.6
82.5°	4.9	4.9	14.7	29.5	44.2	54.0	78.6	88.4	98.2	88.4	73.6
85°	0.0	4.9	14.7	29.5	39.3	44.2	44.2	29.5	24.5	14.7	14.7
87.5°	0.0	0.0	4.9	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)