

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: P533943

Luminaire Tested: **GALN-SA9B-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533943
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-SA9B-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA 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: 28160 lumens
Efficiency: N/A
Efficacy: 77.4 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): 364
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



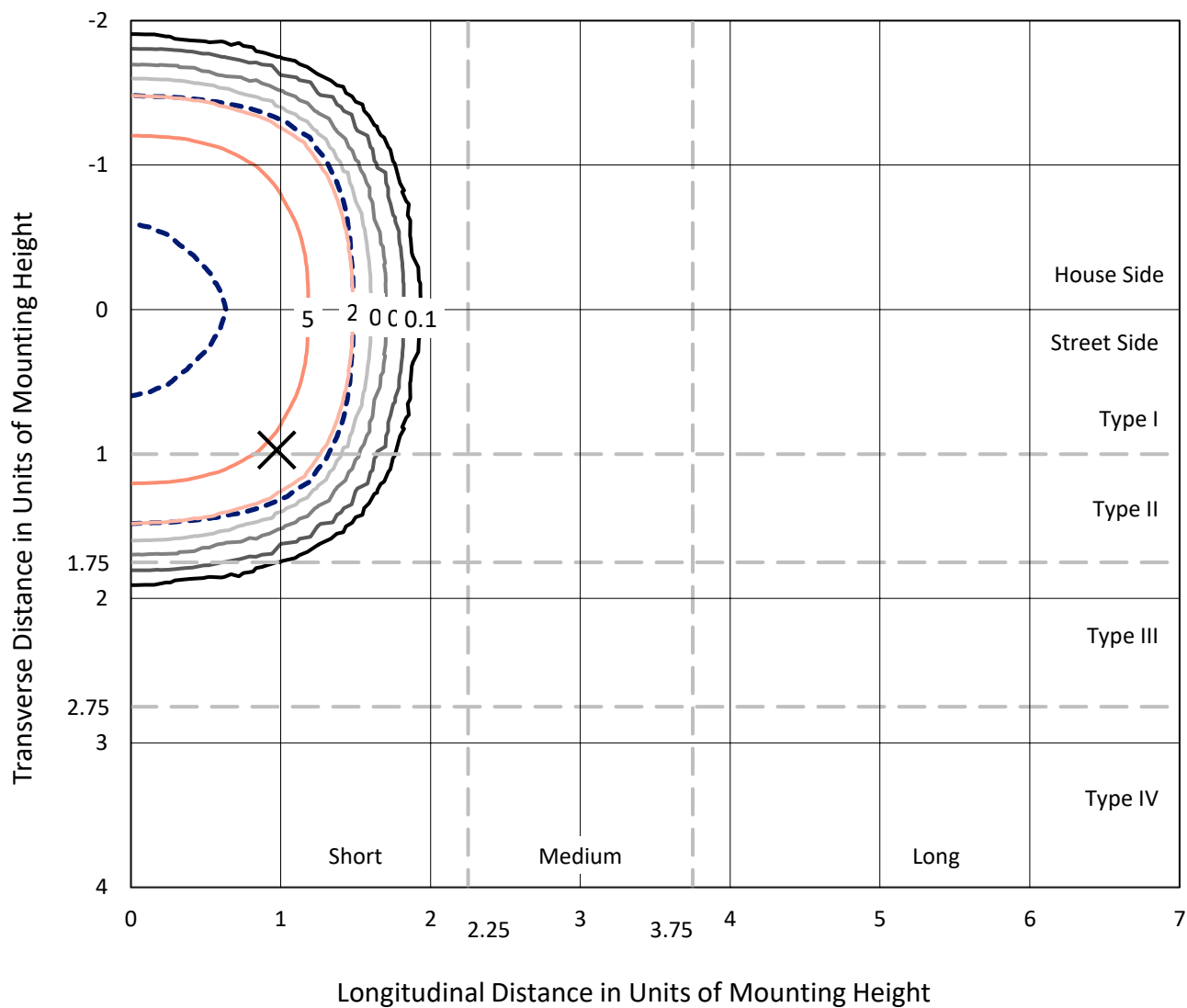
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

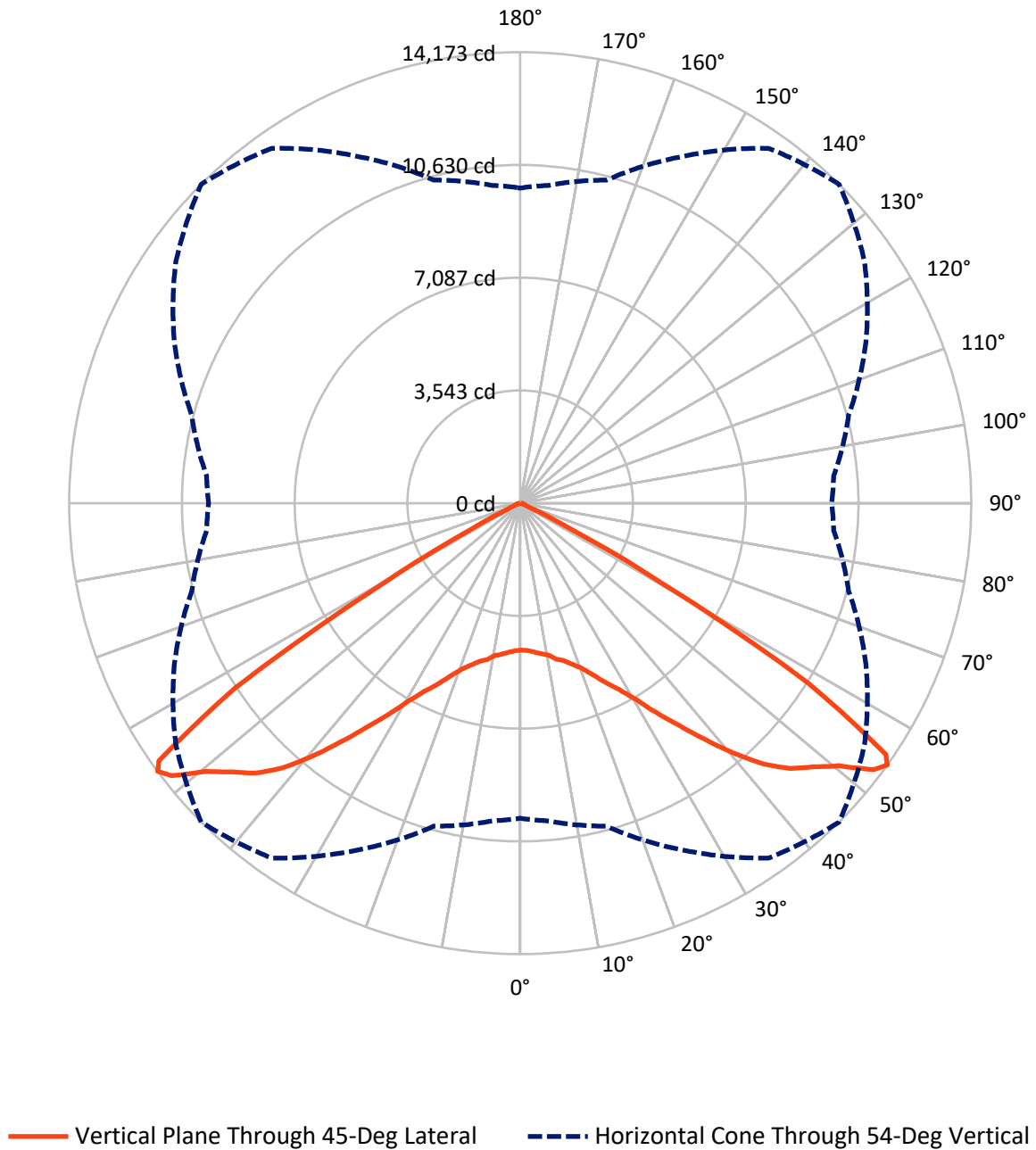
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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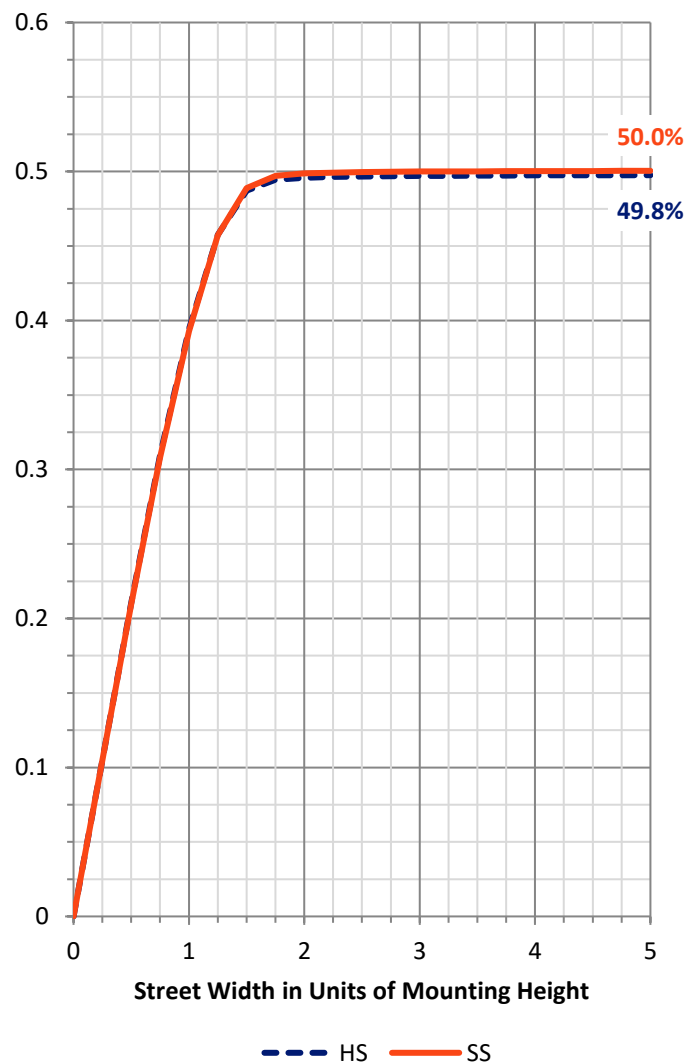
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14080.0	0.0	14080.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14080.0	0.0	14080.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28160.0	0.0	28160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.9	1.6
10°-20°	1463.5	5.2
20°-30°	2868.4	10.2
30°-40°	5158.0	18.3
40°-50°	8829.5	31.4
50°-60°	8543.4	30.3
60°-70°	731.3	2.6
70°-80°	86.7	0.3
80°-90°	27.2	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°	28160.0	100.0
0°-180°	28160.0	100.0

Coefficient of Utilization



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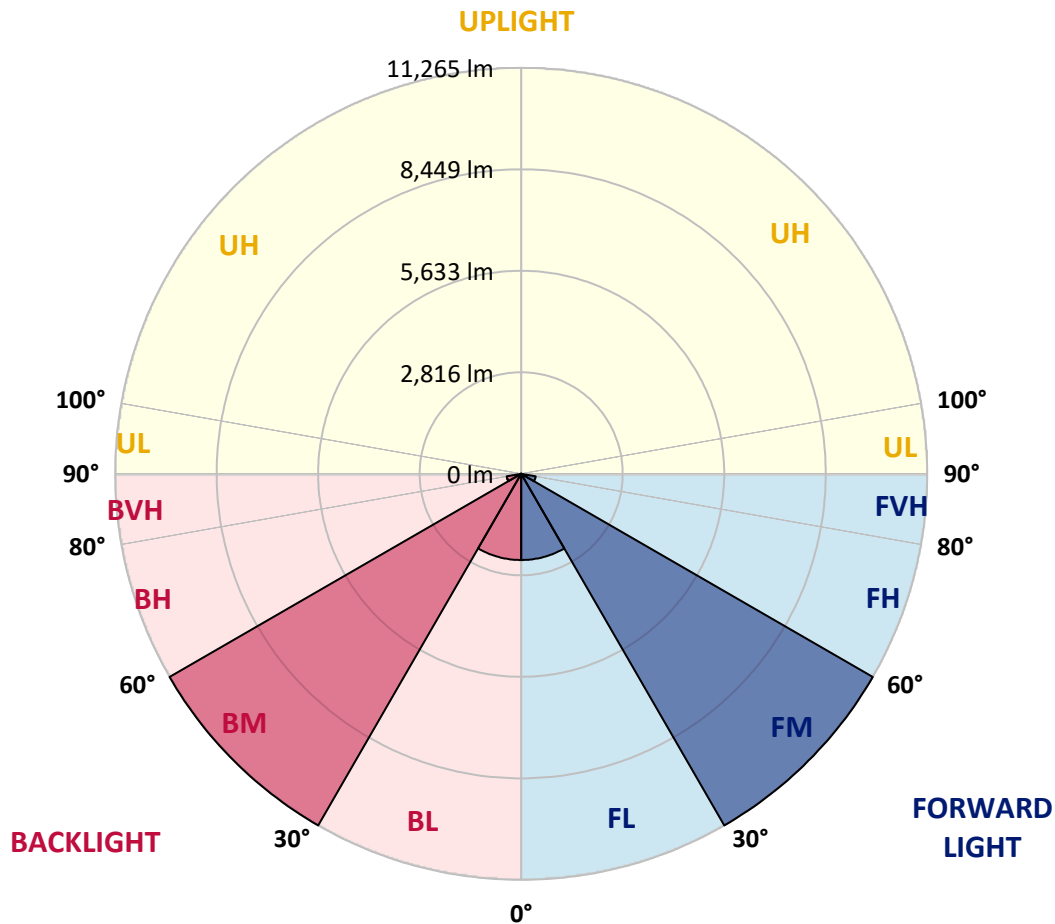
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2391.9	8.5			
FM	(30°-60°)	11265.5	40.0			
FH	(60°-80°)	409.0	1.5			G0/660
FVH	(80°-90°)	13.6	0.0			G1/100
BL	(0°-30°)	2391.9	8.5	B3/2500		
BM	(30°-60°)	11265.5	40.0	B5		
BH	(60°-80°)	409.0	1.5	B1/500		G0/660
BVH	(80°-90°)	13.6	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°	4617.4	4617.4	4617.4	4617.4	4617.4	4617.4	4617.4	4617.4	4617.4	4617.4	4617.4
2.5°	4639.7	4666.4	4648.6	4662.0	4662.0	4639.7	4653.1	4599.5	4635.2	4608.4	4612.9
5°	4711.0	4706.6	4706.6	4711.0	4693.2	4702.1	4684.3	4666.4	4653.1	4635.2	4688.7
7.5°	4800.3	4800.3	4769.0	4778.0	4769.0	4782.4	4746.7	4711.0	4697.7	4684.3	4675.4
10°	4885.0	4876.1	4862.7	4902.9	4871.7	4853.8	4836.0	4813.7	4764.6	4746.7	4728.9
12.5°	5010.0	5005.5	4987.6	5027.8	5010.0	5027.8	4960.9	4902.9	4894.0	4836.0	4867.2
15°	5157.2	5197.3	5166.1	5166.1	5157.2	5134.9	5108.1	5081.3	5001.0	4978.7	4983.2
17.5°	5349.0	5335.6	5340.1	5340.1	5384.7	5326.7	5273.2	5206.2	5166.1	5152.7	5108.1
20°	5531.9	5549.8	5545.3	5576.5	5603.3	5540.8	5482.8	5473.9	5362.4	5380.2	5317.8
22.5°	5853.1	5839.7	5862.0	5884.3	5866.5	5857.6	5804.0	5737.1	5639.0	5594.4	5585.4
25°	6192.2	6169.9	6129.7	6183.3	6210.0	6250.2	6147.6	6111.9	5960.2	5893.3	5897.7
27.5°	6482.2	6513.4	6558.0	6580.3	6647.2	6633.8	6562.5	6446.5	6330.5	6254.6	6205.6
30°	6879.2	6897.0	6972.9	7004.1	7120.1	7151.3	7039.8	6906.0	6700.8	6602.6	6544.6
32.5°	7245.0	7369.9	7365.5	7521.6	7709.0	7838.4	7637.6	7432.4	7227.2	7111.2	7008.6
35°	7838.4	7816.1	7945.4	8110.5	8413.9	8561.1	8342.5	8106.0	7793.8	7606.4	7526.1
37.5°	8391.6	8400.5	8574.5	8837.7	9185.7	9413.2	9221.3	8833.2	8512.0	8271.1	8159.6
40°	9194.6	9212.4	9390.9	9689.8	10082.4	10327.7	10104.7	9712.1	9283.8	9096.4	9096.4
42.5°	10135.9	10211.7	10327.7	10586.5	10938.9	11211.0	11010.3	10702.5	10269.7	10028.8	10064.5
45°	11104.0	11139.7	11215.5	11599.2	11764.2	11898.1	11710.7	11567.9	11278.0	10983.5	10934.5
47.5°	12009.6	12023.0	12246.0	12366.5	12495.9	12384.3	12504.8	12317.4	11991.8	11706.2	11648.2
50°	12411.1	12388.8	12705.6	13071.4	13169.5	12973.2	12870.6	12745.7	12250.5	11907.0	11755.3
52.5°	11242.3	11371.6	11960.5	12977.7	13745.0	13910.1	13312.3	12736.8	11813.3	11144.1	11041.5
54°	9903.9	10024.4	10510.6	12018.5	13615.6	14173.3	13209.7	11987.3	10684.6	9890.5	9787.9
55°	8578.9	8445.1	9328.4	10867.5	13008.9	13941.3	12803.7	11019.2	9529.2	8802.0	8659.2
57.5°	4644.1	4666.4	5411.5	6865.8	9141.0	10689.1	9439.9	7454.7	5630.1	4813.7	4742.3
60°	1472.2	1507.9	1833.6	2774.9	4367.5	5215.2	4470.1	2993.5	2070.0	1659.6	1592.7
62.5°	459.5	477.4	522.0	776.3	1195.6	1708.6	1338.4	803.0	597.8	548.7	557.7
65°	281.1	281.1	285.5	303.4	356.9	414.9	401.5	352.4	339.1	330.1	325.7
67.5°	182.9	178.4	187.4	200.8	209.7	214.1	227.5	240.9	236.4	227.5	227.5
70°	111.5	107.1	116.0	133.8	138.3	147.2	160.6	178.4	174.0	165.1	169.5
72.5°	62.5	62.5	66.9	80.3	93.7	102.6	116.0	129.4	133.8	129.4	129.4
75°	22.3	26.8	35.7	49.1	58.0	71.4	84.8	98.1	111.5	102.6	98.1
77.5°	8.9	8.9	17.8	31.2	44.6	58.0	80.3	93.7	102.6	93.7	84.8
80°	4.5	4.5	13.4	26.8	40.2	53.5	66.9	80.3	84.8	75.8	66.9
82.5°	4.5	4.5	13.4	26.8	40.2	49.1	71.4	80.3	89.2	80.3	66.9
85°	0.0	4.5	13.4	26.8	35.7	40.2	40.2	26.8	22.3	13.4	13.4
87.5°	0.0	0.0	4.5	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)