

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: P534177

Luminaire Tested: **GALN-SA9C-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534177
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-SA9C-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 34793 lumens
Efficiency: N/A
Efficacy: 72.3 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

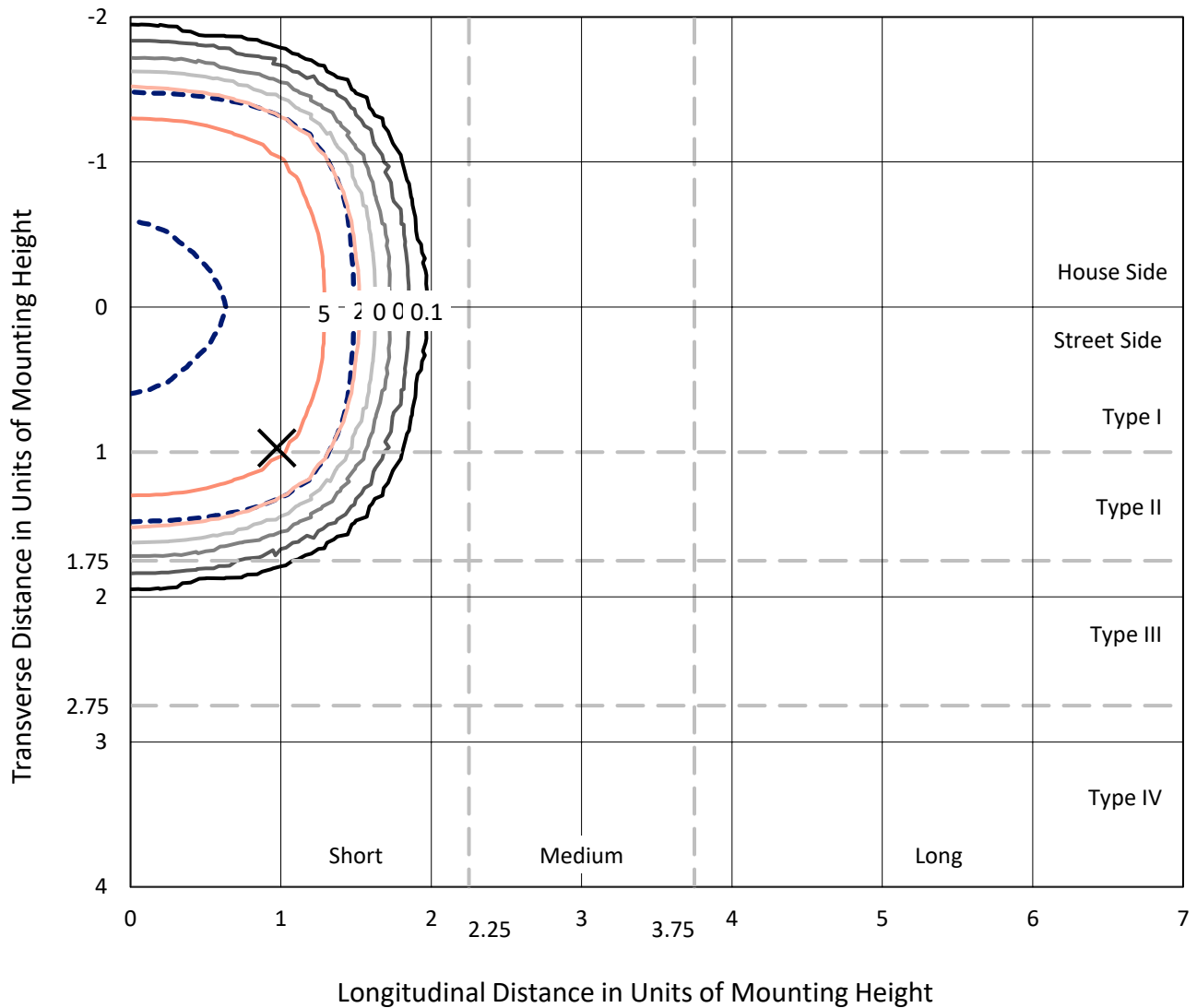
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

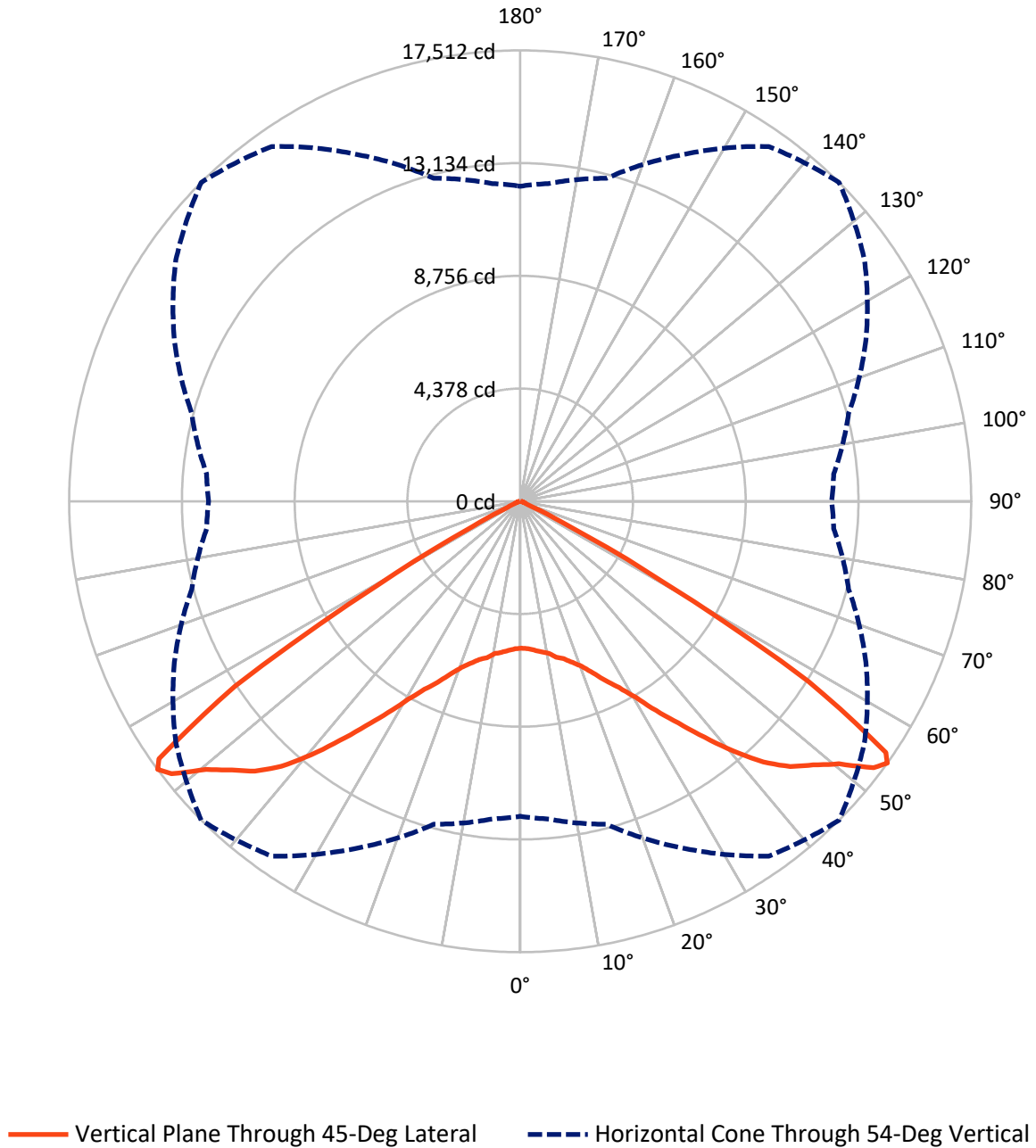
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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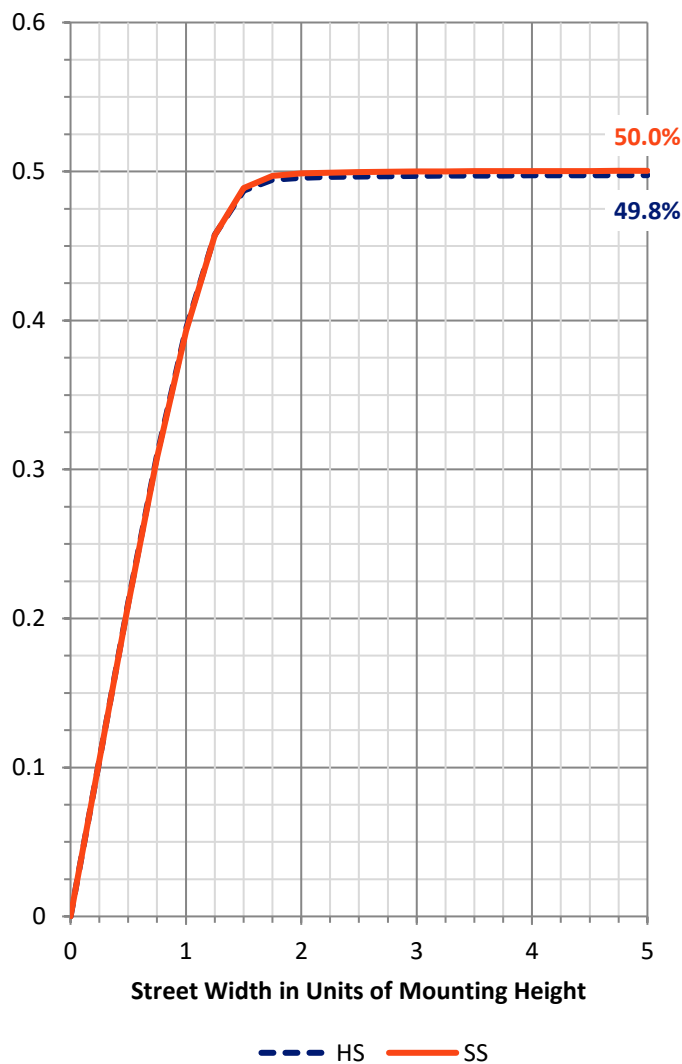
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17396.5	0.0	17396.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17396.5	0.0	17396.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34793.0	0.0	34793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.4	1.6
10°-20°	1808.2	5.2
20°-30°	3544.1	10.2
30°-40°	6373.0	18.3
40°-50°	10909.3	31.4
50°-60°	10555.8	30.3
60°-70°	903.6	2.6
70°-80°	107.1	0.3
80°-90°	33.6	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°	34793.0	100.0
0°-180°	34793.0	100.0

Coefficient of Utilization



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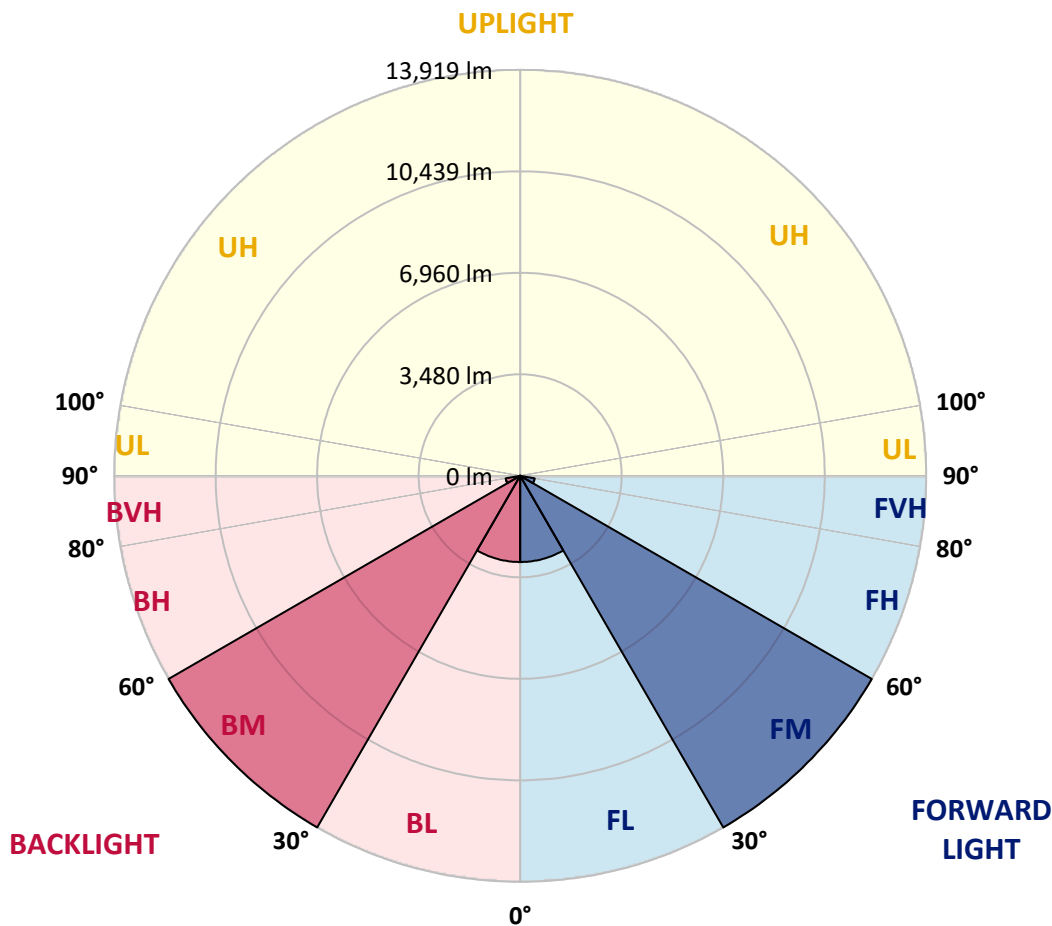
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2955.3	8.5			
FM (30°-60°)	13919.0	40.0			
FH (60°-80°)	505.4	1.5			G0/660
FVH (80°-90°)	16.8	0.0			G1/100
BL (0°-30°)	2955.3	8.5	B4/5000		
BM (30°-60°)	13919.0	40.0	B5		
BH (60°-80°)	505.4	1.5	B2/1000		G0/660
BVH (80°-90°)	16.8	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°	5705.0	5705.0	5705.0	5705.0	5705.0	5705.0	5705.0	5705.0	5705.0	5705.0	5705.0
2.5°	5732.5	5765.6	5743.6	5760.1	5760.1	5732.5	5749.1	5682.9	5727.0	5693.9	5699.5
5°	5820.7	5815.2	5815.2	5820.7	5798.7	5809.7	5787.6	5765.6	5749.1	5727.0	5793.2
7.5°	5931.0	5931.0	5892.4	5903.4	5892.4	5908.9	5864.8	5820.7	5804.2	5787.6	5776.6
10°	6035.7	6024.7	6008.1	6057.7	6019.2	5997.1	5975.1	5947.5	5886.9	5864.8	5842.8
12.5°	6190.0	6184.5	6162.5	6212.1	6190.0	6212.1	6129.4	6057.7	6046.7	5975.1	6013.6
15°	6371.9	6421.5	6382.9	6382.9	6371.9	6344.4	6311.3	6278.2	6179.0	6151.4	6157.0
17.5°	6608.9	6592.4	6597.9	6597.9	6653.0	6581.4	6515.2	6432.6	6382.9	6366.4	6311.3
20°	6834.9	6857.0	6851.5	6890.1	6923.1	6846.0	6774.3	6763.3	6625.5	6647.5	6570.4
22.5°	7231.8	7215.3	7242.8	7270.4	7248.3	7237.3	7171.2	7088.5	6967.2	6912.1	6901.1
25°	7650.7	7623.2	7573.6	7639.7	7672.8	7722.4	7595.6	7551.5	7364.1	7281.4	7286.9
27.5°	8009.0	8047.6	8102.7	8130.3	8212.9	8196.4	8108.2	7964.9	7821.6	7727.9	7667.3
30°	8499.6	8521.6	8615.3	8653.9	8797.2	8835.8	8698.0	8532.6	8279.1	8157.8	8086.2
32.5°	8951.6	9105.9	9100.4	9293.3	9524.8	9684.7	9436.6	9183.1	8929.5	8786.2	8659.4
35°	9684.7	9657.1	9817.0	10020.9	10395.7	10577.6	10307.5	10015.4	9629.5	9398.0	9298.8
37.5°	10368.2	10379.2	10594.2	10919.4	11349.3	11630.4	11393.4	10913.9	10517.0	10219.3	10081.5
40°	11360.3	11382.4	11602.9	11972.2	12457.2	12760.4	12484.8	11999.7	11470.6	11239.1	11239.1
42.5°	12523.4	12617.1	12760.4	13080.1	13515.5	13851.8	13603.7	13223.4	12688.7	12391.1	12435.2
45°	13719.5	13763.6	13857.3	14331.3	14535.3	14700.6	14469.1	14292.7	13934.5	13570.7	13510.0
47.5°	14838.4	14855.0	15130.6	15279.4	15439.2	15301.4	15450.3	15218.8	14816.4	14463.6	14392.0
50°	15334.5	15307.0	15698.3	16150.3	16271.6	16029.0	15902.3	15747.9	15136.1	14711.7	14524.2
52.5°	13890.4	14050.2	14777.8	16034.5	16982.6	17186.6	16447.9	15736.9	14595.9	13769.1	13642.3
54°	12236.7	12385.6	12986.4	14849.5	16822.8	17511.8	16321.2	14810.9	13201.4	12220.2	12093.4
55°	10599.7	10434.3	11525.7	13427.3	16073.1	17225.1	15819.6	13614.8	11773.7	10875.3	10698.9
57.5°	5738.0	5765.6	6686.1	8483.0	11294.2	13206.9	11663.5	9210.6	6956.2	5947.5	5859.3
60°	1819.0	1863.1	2265.5	3428.5	5396.3	6443.6	5523.1	3698.6	2557.6	2050.5	1967.8
62.5°	567.7	589.8	644.9	959.1	1477.2	2111.1	1653.6	992.2	738.6	678.0	689.0
65°	347.3	347.3	352.8	374.8	441.0	512.6	496.1	435.5	418.9	407.9	402.4
67.5°	226.0	220.5	231.5	248.0	259.1	264.6	281.1	297.7	292.1	281.1	281.1
70°	137.8	132.3	143.3	165.4	170.9	181.9	198.4	220.5	215.0	203.9	209.5
72.5°	77.2	77.2	82.7	99.2	115.8	126.8	143.3	159.8	165.4	159.8	159.8
75°	27.6	33.1	44.1	60.6	71.7	88.2	104.7	121.3	137.8	126.8	121.3
77.5°	11.0	11.0	22.0	38.6	55.1	71.7	99.2	115.8	126.8	115.8	104.7
80°	5.5	5.5	16.5	33.1	49.6	66.1	82.7	99.2	104.7	93.7	82.7
82.5°	5.5	5.5	16.5	33.1	49.6	60.6	88.2	99.2	110.2	99.2	82.7
85°	0.0	5.5	16.5	33.1	44.1	49.6	49.6	33.1	27.6	16.5	16.5
87.5°	0.0	0.0	5.5	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)