

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: P533242

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533242
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-SA8C-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA 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: 40633 lumens
Efficiency: N/A
Efficacy: 94.7 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

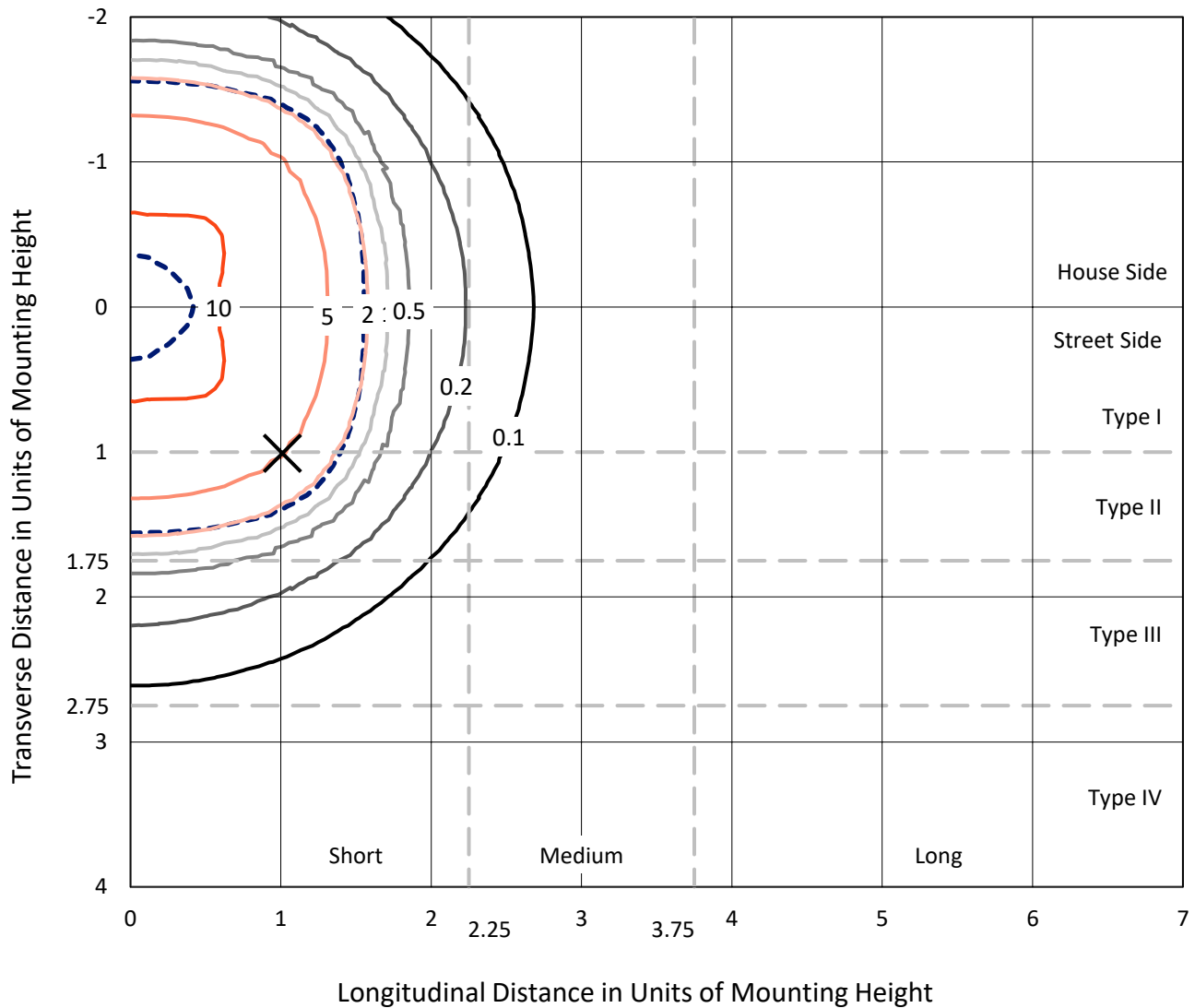


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Iso-Footcandle Lines of Horizontal Illumination

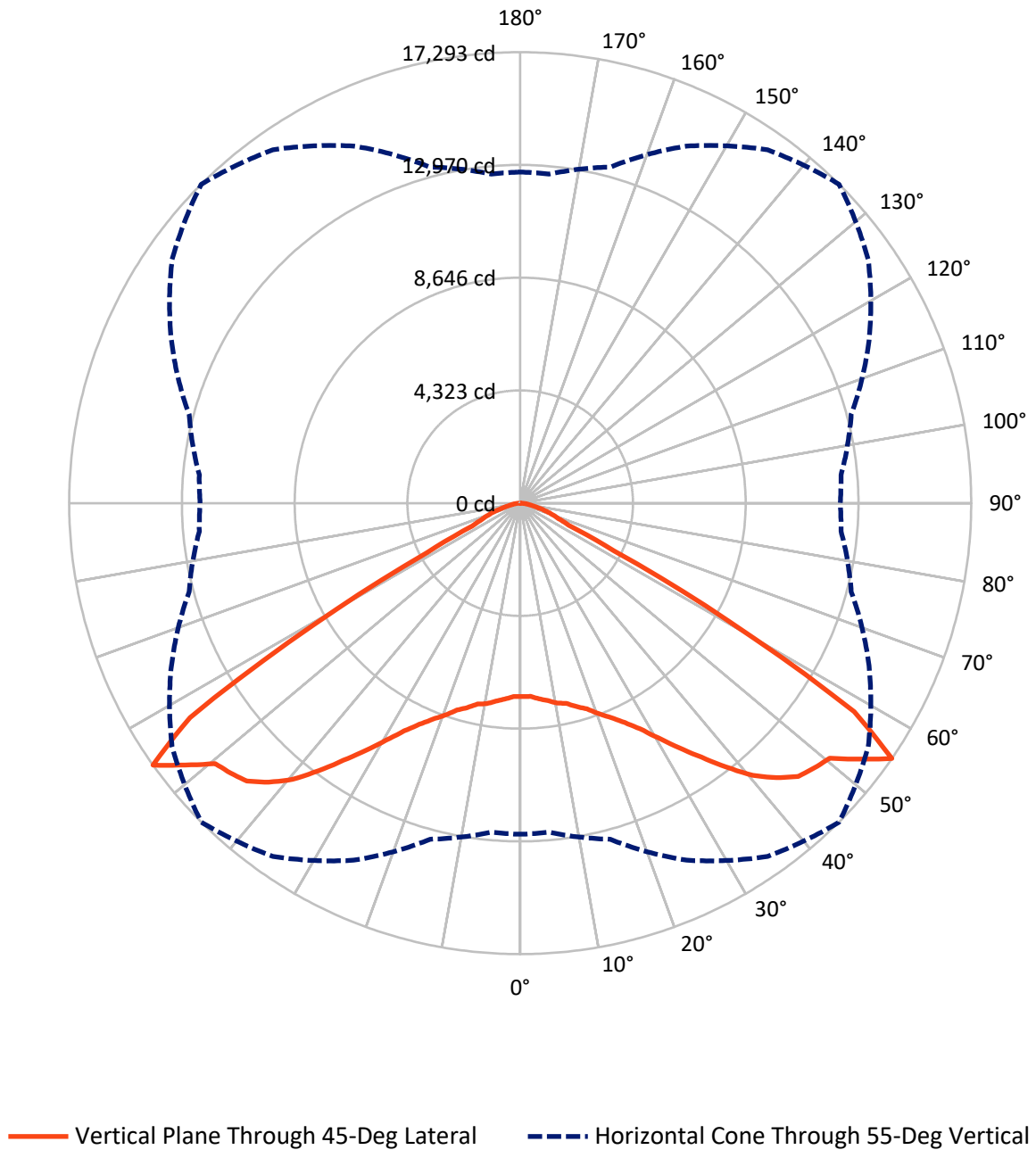
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	20316.5	0.0	20316.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20316.5	0.0	20316.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40633.0	0.0	40633.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.8	1.8
10°-20°	2296.4	5.7
20°-30°	4282.1	10.5
30°-40°	7169.6	17.6
40°-50°	11156.5	27.5
50°-60°	11583.9	28.5
60°-70°	2456.6	6.0
70°-80°	809.0	2.0
80°-90°	154.1	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°	40633.0	100.0
0°-180°	40633.0	100.0

Coefficient of Utilization



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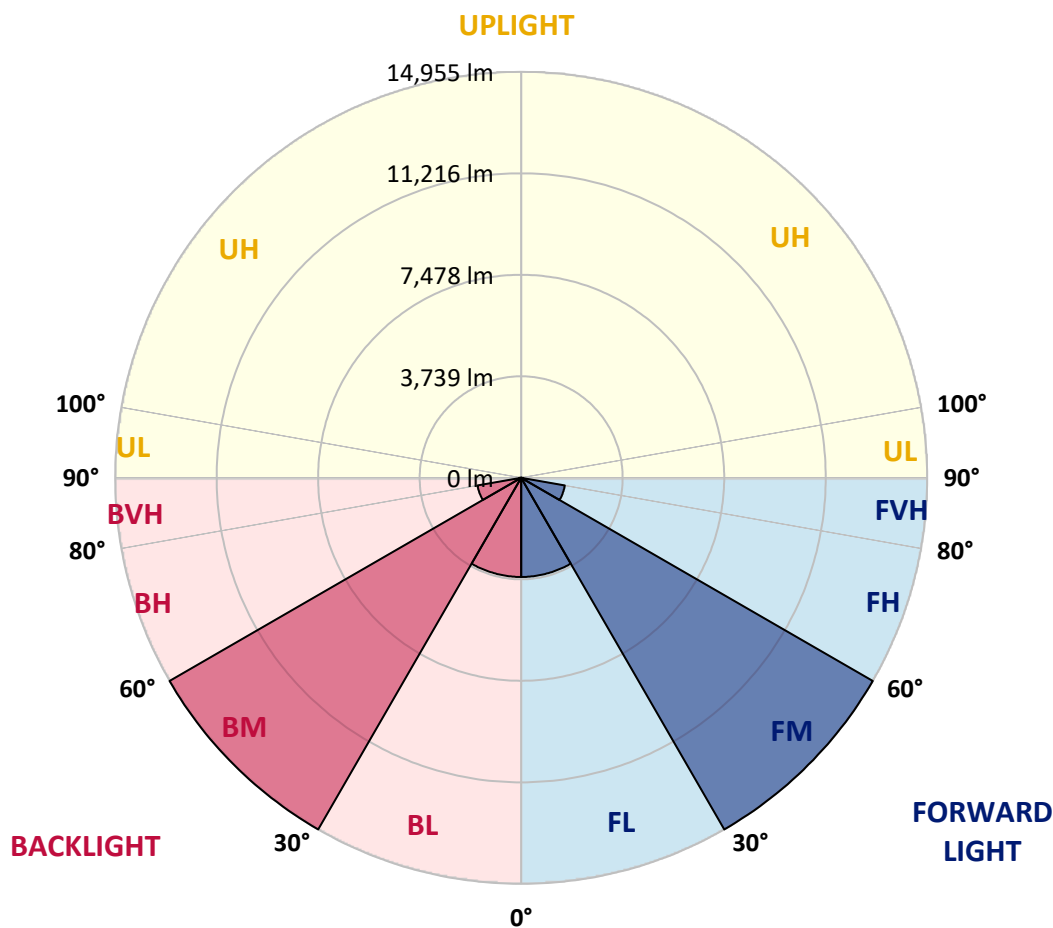
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3651.6	9.0			
FM	(30°-60°)	14955.0	36.8			
FH	(60°-80°)	1632.8	4.0			G1/1800
FVH	(80°-90°)	77.0	0.2			G1/100
BL	(0°-30°)	3651.6	9.0	B4/5000		
BM	(30°-60°)	14955.0	36.8	B5		
BH	(60°-80°)	1632.8	4.0	B3/2500		G1/1800
BVH	(80°-90°)	77.0	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°	7419.0	7419.0	7419.0	7419.0	7419.0	7419.0	7419.0	7419.0	7419.0	7419.0	7419.0
2.5°	7507.4	7473.0	7414.1	7458.3	7492.6	7419.0	7448.4	7463.2	7453.3	7414.1	7428.8
5°	7615.4	7595.7	7546.6	7581.0	7536.8	7536.8	7507.4	7468.1	7527.0	7517.2	7541.7
7.5°	7615.4	7590.8	7689.0	7625.2	7644.8	7644.8	7595.7	7556.5	7585.9	7541.7	7517.2
10°	7767.6	7802.0	7757.8	7772.5	7762.7	7797.0	7723.4	7698.8	7674.3	7659.6	7630.1
12.5°	7949.3	7924.7	7939.4	7929.6	7964.0	7875.6	7831.4	7777.4	7821.6	7757.8	7802.0
15°	8096.6	8081.8	8096.6	8135.8	8101.5	8096.6	8018.0	7964.0	7895.2	7910.0	7841.2
17.5°	8297.9	8283.1	8288.0	8322.4	8317.5	8293.0	8234.0	8130.9	8106.4	8067.1	8022.9
20°	8597.4	8572.8	8563.0	8577.7	8602.3	8621.9	8504.1	8464.8	8381.3	8317.5	8243.9
22.5°	8852.7	8842.9	8882.2	8818.3	8872.3	8931.3	8818.3	8798.7	8592.5	8558.1	8479.5
25°	9206.2	9191.5	9166.9	9260.2	9324.1	9319.1	9211.1	9103.1	8946.0	8906.7	8906.7
27.5°	9579.4	9495.9	9623.6	9648.1	9761.0	9795.4	9702.1	9545.0	9397.7	9314.2	9333.9
30°	10045.8	9967.3	9996.7	10173.5	10320.8	10448.4	10212.8	9982.0	9775.8	9628.5	9603.9
32.5°	10512.3	10433.7	10522.1	10693.9	10988.5	11180.0	10949.3	10546.6	10306.0	10090.0	10134.2
35°	10890.3	10949.3	11091.6	11351.9	11656.3	11965.6	11597.4	11288.0	10944.3	10703.8	10738.1
37.5°	11499.2	11680.8	11793.8	12093.3	12525.4	12844.5	12461.5	12058.9	11690.7	11376.4	11268.4
40°	12294.6	12417.3	12545.0	12898.5	13409.2	13728.3	13365.0	12839.6	12476.3	12152.2	12137.5
42.5°	13168.6	13286.4	13419.0	13851.1	14155.5	14396.1	14062.2	13782.3	13379.7	13124.4	13109.6
45°	14184.9	14101.5	14248.8	14533.5	14788.9	14946.0	14729.9	14592.5	14302.8	14067.1	14042.5
47.5°	14862.5	14788.9	15054.0	15309.3	15348.6	15176.7	15220.9	15348.6	15044.2	14656.3	14779.0
50°	15255.3	15255.3	15432.1	15667.7	15594.1	15373.1	15721.8	15731.6	15427.2	15083.5	15083.5
52.5°	14572.8	14725.0	15225.8	15996.7	16242.2	16306.0	16227.5	15893.6	15098.2	14396.1	14361.7
55°	12697.2	12662.8	13340.4	15108.0	16536.8	17292.9	16291.3	14754.5	13139.1	12348.6	12270.0
57.5°	8258.6	8297.9	9309.3	11111.3	13689.0	15098.2	13409.2	11248.8	9309.3	8219.3	8322.4
60°	3716.9	3849.4	4463.2	5808.5	8022.9	9171.8	8042.5	6103.1	4684.1	4065.5	4119.5
62.5°	2135.8	2160.4	2184.9	2592.5	3417.3	4040.9	3549.9	2739.8	2415.7	2307.7	2307.7
65°	1802.0	1787.2	1792.1	1826.5	1914.9	2042.6	1988.5	1914.9	1924.7	1914.9	1900.2
67.5°	1531.9	1551.6	1536.8	1561.4	1566.3	1585.9	1620.3	1649.8	1654.7	1664.5	1654.7
70°	1257.0	1261.9	1271.7	1291.3	1296.2	1311.0	1360.1	1384.6	1399.3	1399.3	1419.0
72.5°	962.4	957.4	967.3	986.9	1011.5	1016.4	1060.6	1094.9	1114.6	1090.0	1094.9
75°	633.4	638.3	653.0	667.8	702.1	736.5	751.2	785.6	790.5	800.3	775.8
77.5°	378.1	387.9	402.6	432.1	461.5	491.0	525.4	549.9	559.7	549.9	520.5
80°	245.5	245.5	265.1	289.7	324.1	348.6	368.2	387.9	402.6	387.9	378.1
82.5°	152.2	152.2	176.8	206.2	230.8	245.5	275.0	299.5	314.2	304.4	289.7
85°	78.6	83.5	103.1	127.7	147.3	157.1	152.2	137.5	122.7	117.8	108.0
87.5°	24.5	24.5	29.5	29.5	24.5	24.5	29.5	24.5	29.5	29.5	29.5
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)