

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: P533243

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
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-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23531 lumens
Efficiency: N/A
Efficacy: 54.9 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

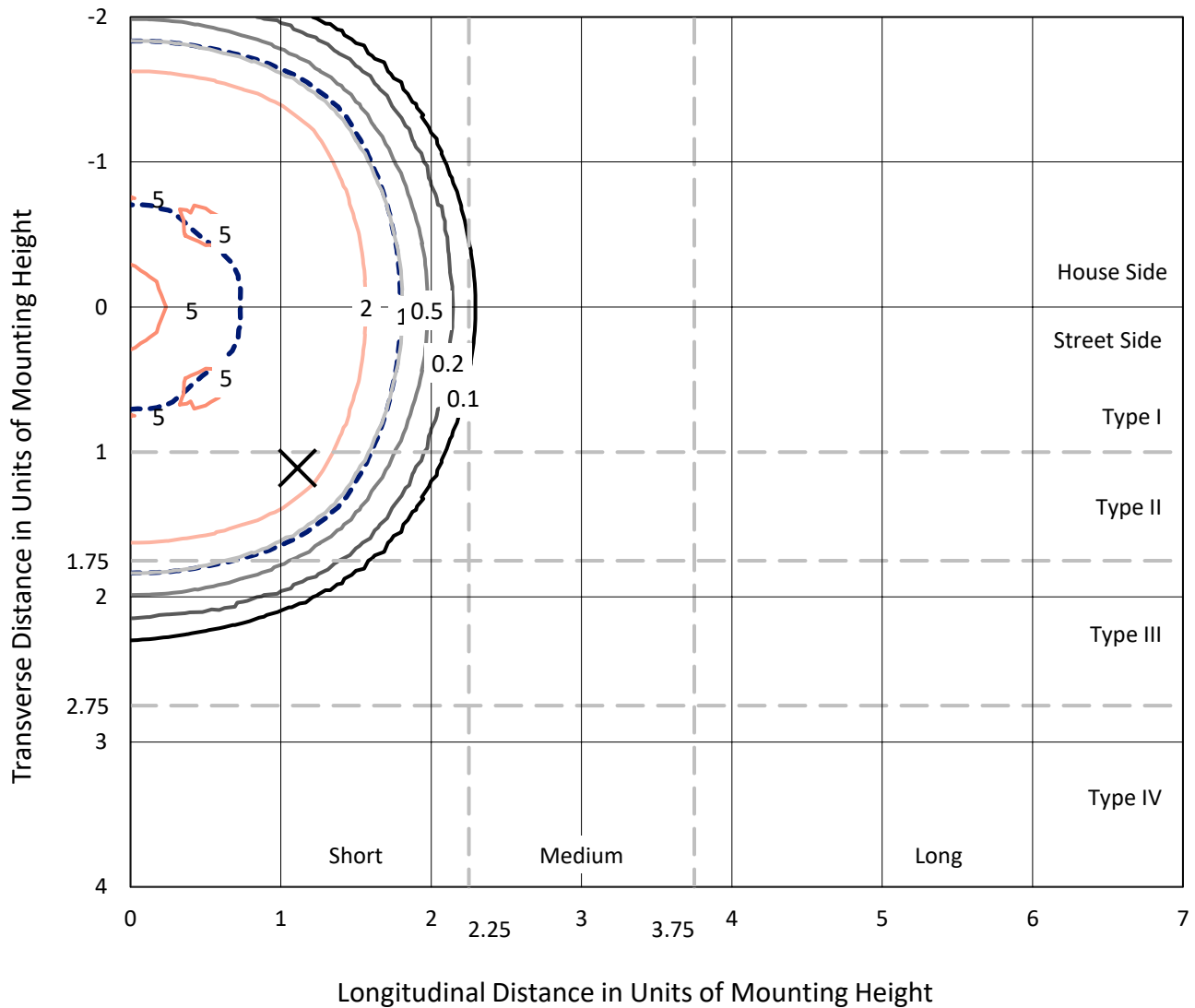


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

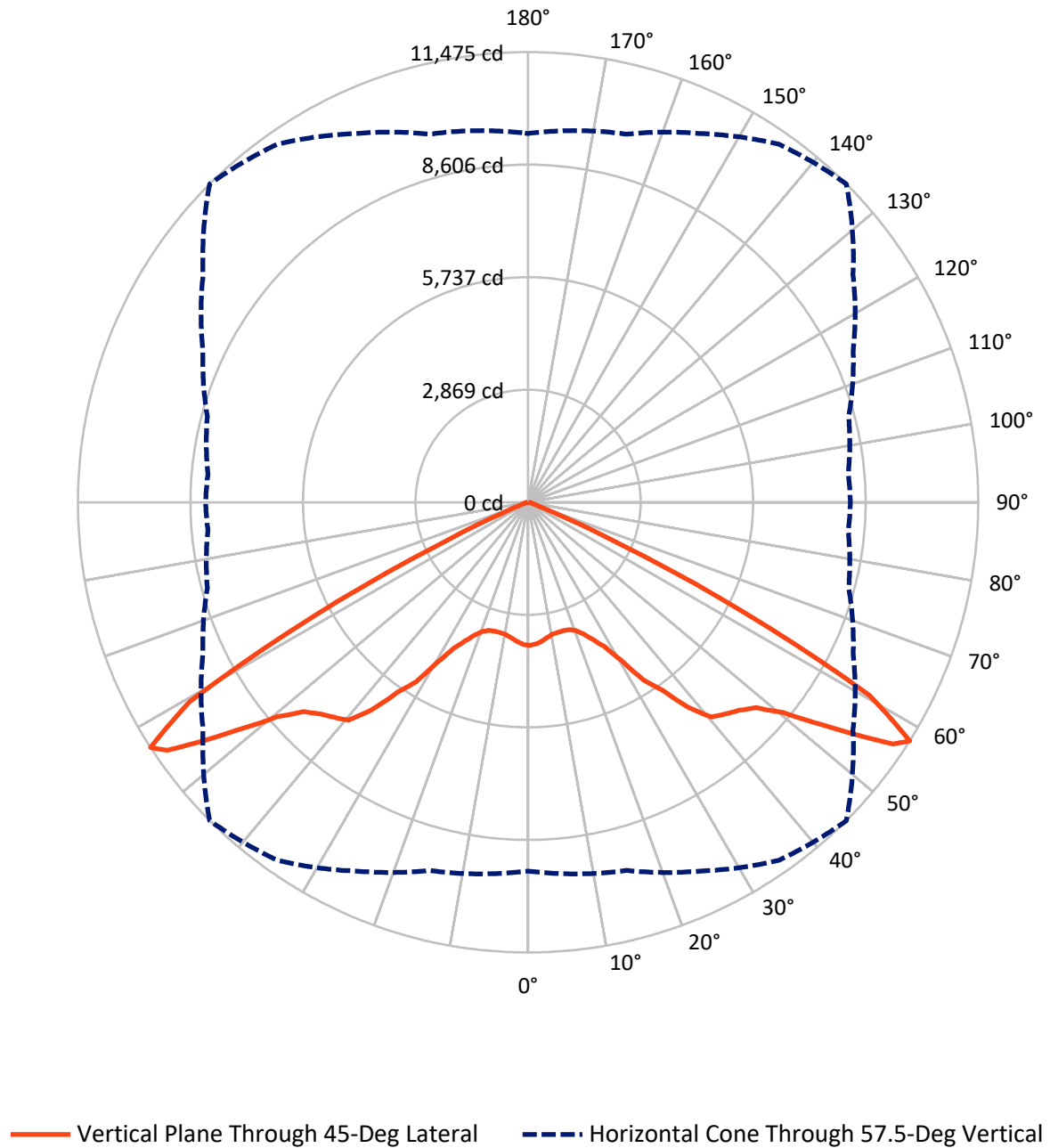


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11765.5	0.0	11765.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11765.5	0.0	11765.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23531.0	0.0	23531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.4	1.4
10°-20°	969.5	4.1
20°-30°	1789.5	7.6
30°-40°	3519.3	15.0
40°-50°	5732.0	24.4
50°-60°	8174.6	34.7
60°-70°	2830.2	12.0
70°-80°	151.8	0.6
80°-90°	28.5	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°	23531.0	100.0
0°-180°	23531.0	100.0

Coefficient of Utilization



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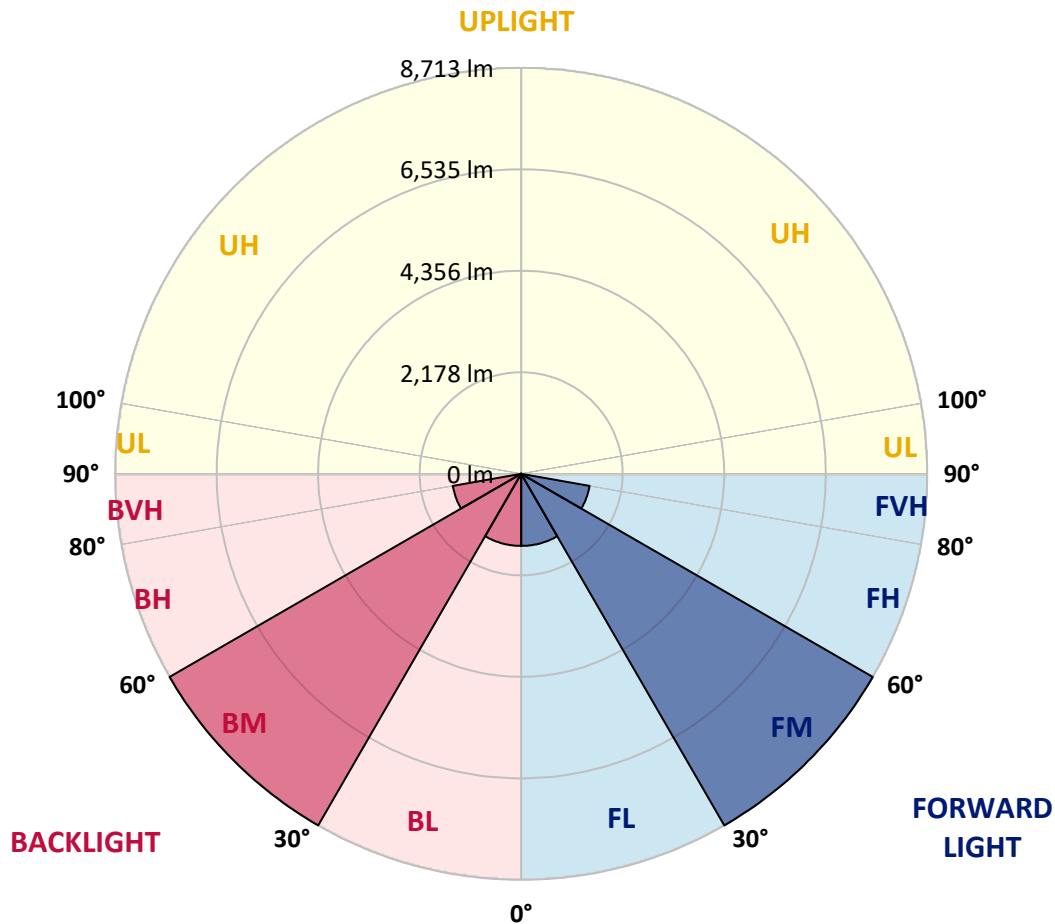
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1547.2	6.6			
FM	(30°-60°)	8713.0	37.0			
FH	(60°-80°)	1491.0	6.3			G1/1800
FVH	(80°-90°)	14.3	0.1			G1/100
BL	(0°-30°)	1547.2	6.6	B3/2500		
BM	(30°-60°)	8713.0	37.0	B5		
BH	(60°-80°)	1491.0	6.3	B3/2500		G1/1800
BVH	(80°-90°)	14.3	0.1			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°	3649.9	3649.9	3649.9	3649.9	3649.9	3649.9	3649.9	3649.9	3649.9	3649.9	3649.9
2.5°	3640.1	3659.7	3635.2	3625.4	3620.5	3620.5	3605.8	3605.8	3600.8	3605.8	3586.1
5°	3581.2	3600.8	3600.8	3595.9	3566.5	3561.6	3546.9	3537.1	3542.0	3522.4	3537.1
7.5°	3522.4	3537.1	3517.4	3512.5	3502.7	3483.1	3478.2	3434.0	3439.0	3439.0	3448.8
10°	3512.5	3507.6	3478.2	3453.7	3424.2	3419.3	3404.6	3394.8	3394.8	3389.9	3404.6
12.5°	3512.5	3488.0	3483.1	3429.1	3380.1	3399.7	3360.5	3335.9	3370.3	3380.1	3399.7
15°	3507.6	3532.2	3448.8	3424.2	3389.9	3394.8	3360.5	3335.9	3355.6	3365.4	3380.1
17.5°	3537.1	3522.4	3497.8	3448.8	3434.0	3414.4	3370.3	3350.7	3350.7	3375.2	3380.1
20°	3615.6	3576.3	3527.3	3502.7	3517.4	3492.9	3439.0	3365.4	3385.0	3404.6	3419.3
22.5°	3689.2	3659.7	3625.4	3610.7	3694.1	3654.8	3561.6	3478.2	3448.8	3483.1	3507.6
25°	3831.4	3831.4	3767.6	3787.3	3880.5	3885.4	3777.5	3630.3	3610.7	3625.4	3635.2
27.5°	4120.9	4135.6	4081.6	4101.2	4140.5	4174.8	4081.6	3959.0	3914.8	3909.9	3924.6
30°	4434.8	4464.3	4459.4	4542.8	4655.6	4675.2	4537.9	4336.7	4204.3	4179.7	4199.4
32.5°	4846.9	4861.6	4851.8	4949.9	5254.1	5396.4	5038.2	4753.7	4577.1	4621.3	4577.1
35°	5622.0	5607.3	5499.4	5519.0	5769.2	5872.2	5528.8	5347.3	5263.9	5352.2	5332.6
37.5°	6289.2	6235.3	6146.9	6274.5	6534.5	6627.7	6269.6	5950.7	5798.6	5945.8	6009.6
40°	6853.4	6716.0	6593.4	6720.9	7069.2	7196.8	6671.9	6411.9	6353.0	6460.9	6598.3
42.5°	7329.2	7240.9	7079.0	7088.9	7319.4	7378.3	6956.4	6804.3	6745.5	6917.2	6985.8
45°	7667.7	7584.3	7432.3	7422.5	7599.1	7559.8	7182.1	7079.0	7113.4	7226.2	7260.6
47.5°	7839.4	7883.6	7795.3	7819.8	7913.0	7819.8	7520.6	7520.6	7442.1	7510.8	7476.4
50°	8334.9	8197.6	8310.4	8310.4	8408.5	8418.3	8119.1	8011.1	7800.2	7682.5	7682.5
52.5°	8913.8	8923.6	8967.8	9129.7	9296.5	9438.7	9011.9	8550.8	8197.6	8045.5	8025.9
55°	9389.7	9487.8	9664.4	9968.6	10449.3	10645.6	9909.7	9085.5	8653.8	8418.3	8369.3
56°	9649.7	9556.5	9860.6	10277.6	10905.6	11160.7	10056.9	9193.4	8717.6	8452.7	8447.8
57.5°	9399.5	9502.5	9713.5	10370.8	11141.0	11474.6	10110.8	9144.4	8462.5	8192.7	8217.2
60°	7422.5	7520.6	7805.1	8541.0	9747.8	10007.8	8555.7	7540.2	6931.9	6544.3	6549.2
62.5°	4199.4	4272.9	4493.7	5175.6	5926.2	6176.4	5332.6	4655.6	4233.7	4017.8	3949.2
65°	1545.3	1515.9	1550.2	1898.5	2359.7	2570.6	2217.4	1874.0	1653.2	1574.8	1545.3
67.5°	578.9	534.7	500.4	534.7	672.1	711.3	652.5	544.5	510.2	524.9	534.7
70°	358.1	338.5	269.8	255.1	250.2	245.3	260.0	274.7	314.0	367.9	377.7
72.5°	250.2	235.5	191.3	181.5	171.7	166.8	191.3	210.9	245.3	284.5	289.4
75°	98.1	103.0	98.1	107.9	112.8	117.7	137.4	152.1	166.8	166.8	161.9
77.5°	19.6	19.6	29.4	39.2	49.1	63.8	93.2	107.9	112.8	107.9	93.2
80°	0.0	0.0	9.8	19.6	39.2	54.0	83.4	93.2	103.0	93.2	73.6
82.5°	0.0	0.0	9.8	24.5	39.2	49.1	78.5	98.1	112.8	103.0	78.5
85°	0.0	0.0	9.8	19.6	29.4	34.3	34.3	24.5	24.5	14.7	9.8
87.5°	0.0	0.0	0.0	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)