

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: P647094

Luminaire Tested: **GALN-SA8C-835-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647094
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-835-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 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: 23187 lumens
Efficiency: N/A
Efficacy: 54.0 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

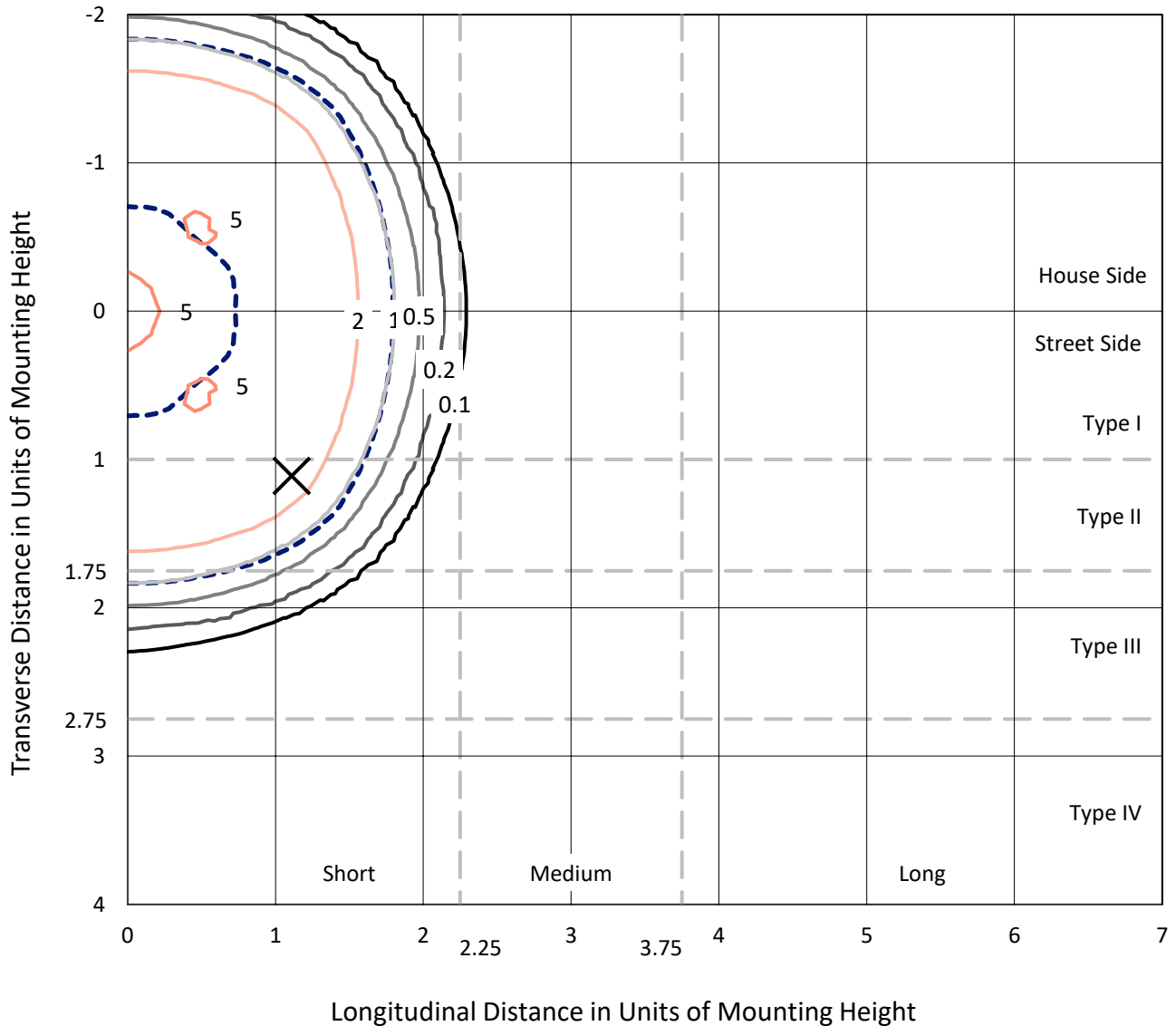
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

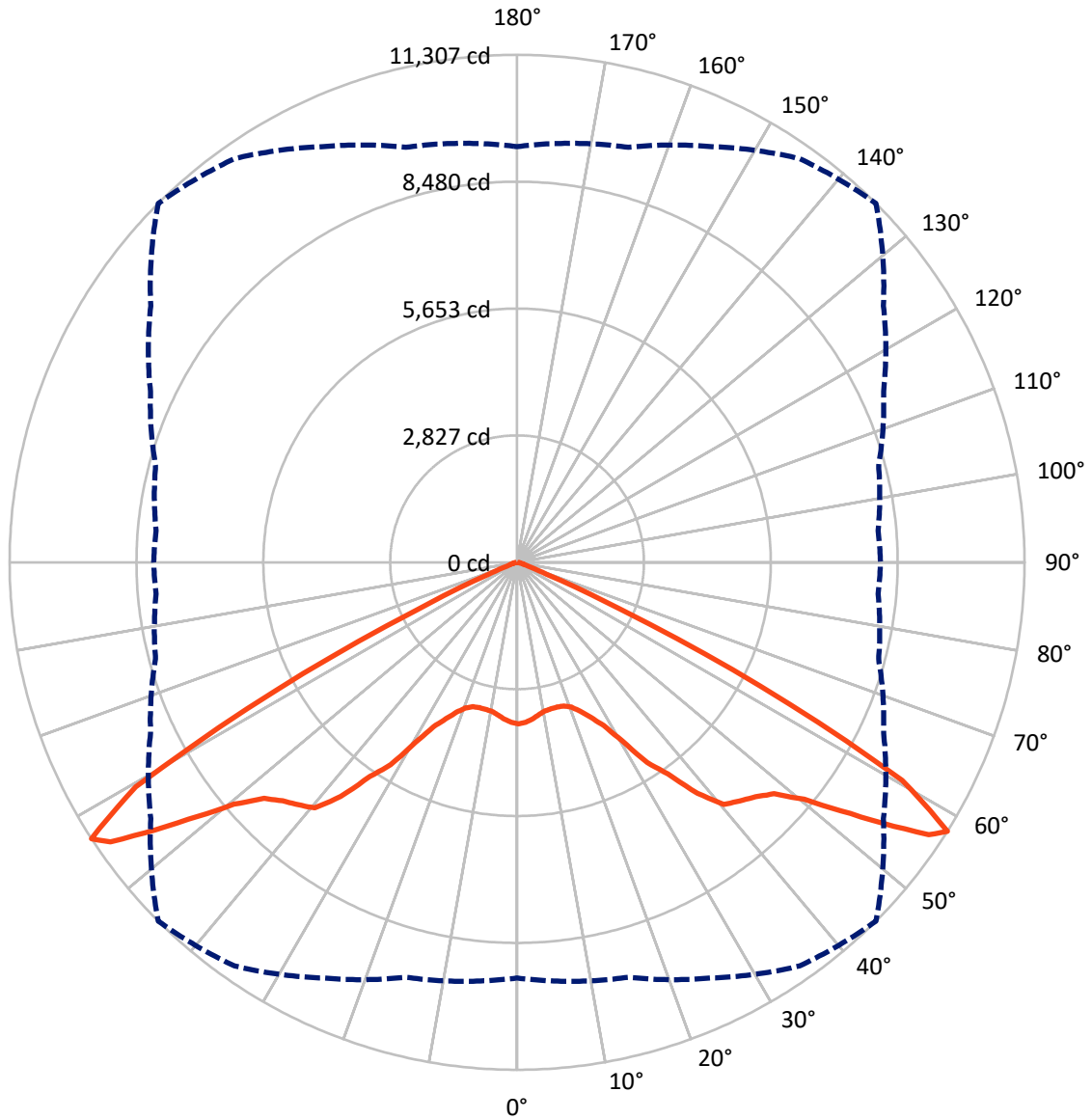
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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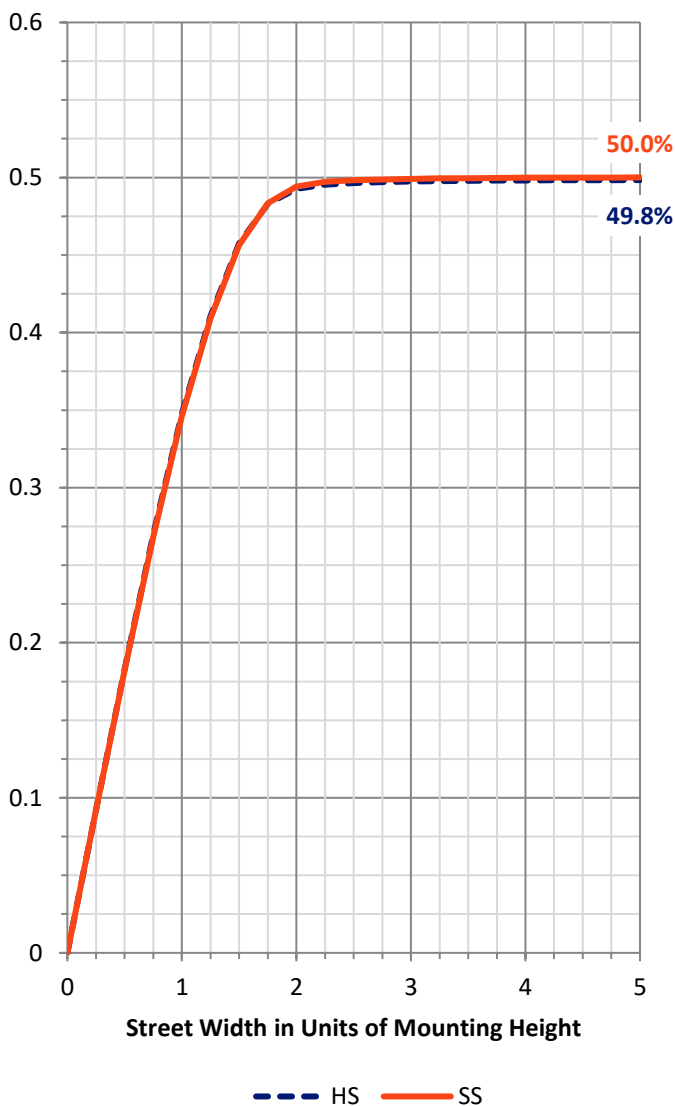
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11593.5	0.0	11593.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11593.5	0.0	11593.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23187.0	0.0	23187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.5	1.4
10°-20°	955.3	4.1
20°-30°	1763.4	7.6
30°-40°	3467.9	15.0
40°-50°	5648.2	24.4
50°-60°	8055.1	34.7
60°-70°	2788.9	12.0
70°-80°	149.6	0.6
80°-90°	28.1	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°	23187.0	100.0
0°-180°	23187.0	100.0

Coefficient of Utilization

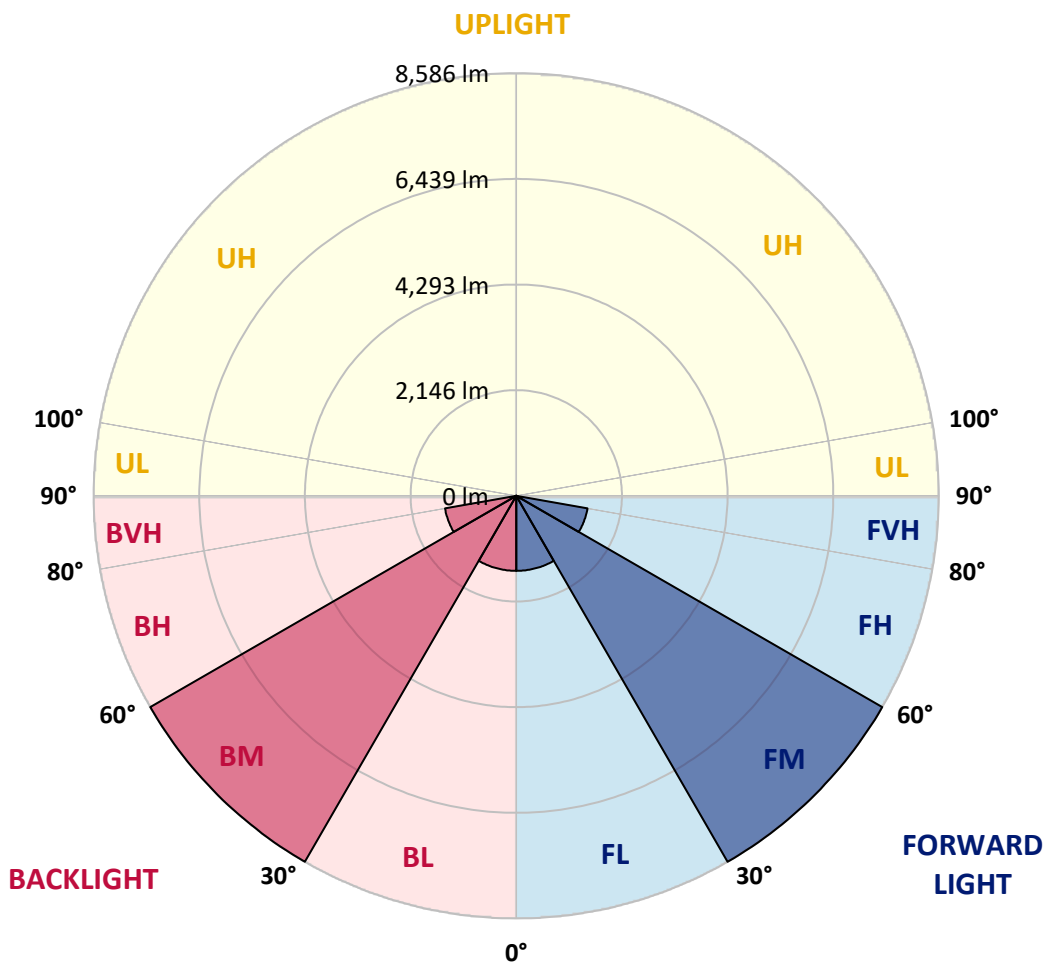


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1524.6	6.6			
FM (30°-60°)	8585.6	37.0			
FH (60°-80°)	1469.2	6.3			G1/1800
FVH (80°-90°)	14.0	0.1			G1/100
BL (0°-30°)	1524.6	6.6	B3/2500		
BM (30°-60°)	8585.6	37.0	B5		
BH (60°-80°)	1469.2	6.3	B3/2500		G1/1800
BVH (80°-90°)	14.0	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°	3596.6	3596.6	3596.6	3596.6	3596.6	3596.6	3596.6	3596.6	3596.6	3596.6	3596.6
2.5°	3586.8	3606.2	3582.1	3572.4	3567.5	3567.5	3553.0	3553.0	3548.2	3553.0	3533.7
5°	3528.9	3548.2	3548.2	3543.4	3514.3	3509.6	3495.0	3485.4	3490.2	3470.9	3485.4
7.5°	3470.9	3485.4	3466.0	3461.2	3451.5	3432.2	3427.3	3383.8	3388.7	3388.7	3398.4
10°	3461.2	3456.3	3427.3	3403.2	3374.2	3369.3	3354.8	3345.2	3345.2	3340.4	3354.8
12.5°	3461.2	3437.1	3432.2	3379.0	3330.6	3350.0	3311.3	3287.2	3321.0	3330.6	3350.0
15°	3456.3	3480.5	3398.4	3374.2	3340.4	3345.2	3311.3	3287.2	3306.5	3316.2	3330.6
17.5°	3485.4	3470.9	3446.7	3398.4	3383.8	3364.5	3321.0	3301.7	3301.7	3325.9	3330.6
20°	3562.7	3524.0	3475.7	3451.5	3466.0	3441.8	3388.7	3316.2	3335.5	3354.8	3369.3
22.5°	3635.2	3606.2	3572.4	3557.9	3640.1	3601.4	3509.6	3427.3	3398.4	3432.2	3456.3
25°	3775.4	3775.4	3712.6	3731.9	3823.8	3828.6	3722.2	3577.2	3557.9	3572.4	3582.1
27.5°	4060.6	4075.1	4022.0	4041.3	4080.0	4113.8	4022.0	3901.1	3857.6	3852.8	3867.2
30°	4370.0	4399.0	4394.2	4476.3	4587.5	4606.9	4471.5	4273.3	4142.8	4118.7	4137.9
32.5°	4776.1	4790.6	4780.9	4877.5	5177.3	5317.4	4964.6	4684.2	4510.2	4553.7	4510.2
35°	5539.8	5525.3	5419.0	5438.3	5684.9	5786.4	5448.0	5269.1	5187.0	5274.0	5254.6
37.5°	6197.3	6144.1	6057.1	6182.8	6439.0	6530.8	6177.9	5863.7	5713.9	5858.9	5921.8
40°	6753.2	6617.8	6496.9	6622.7	6965.9	7091.6	6574.3	6318.1	6260.1	6366.5	6501.8
42.5°	7222.1	7135.1	6975.6	6985.2	7212.4	7270.5	6854.7	6704.8	6646.8	6816.0	6883.7
45°	7555.6	7473.5	7323.6	7313.9	7488.0	7449.3	7077.1	6975.6	7009.4	7120.6	7154.4
47.5°	7724.8	7768.4	7681.3	7705.5	7797.3	7705.5	7410.6	7410.6	7333.3	7400.9	7367.1
50°	8213.0	8077.7	8188.9	8188.9	8285.5	8295.3	8000.4	7894.0	7686.2	7570.1	7570.1
52.5°	8783.5	8793.2	8836.7	8996.2	9160.6	9300.7	8880.2	8425.8	8077.7	7927.9	7908.5
55°	9252.4	9349.1	9523.1	9822.8	10296.5	10489.9	9764.8	8952.7	8527.3	8295.3	8246.9
56°	9508.6	9416.7	9716.5	10127.4	10746.1	10997.5	9909.8	9059.0	8590.1	8329.1	8324.2
57.5°	9262.0	9363.6	9571.5	10219.2	10978.1	11306.9	9963.0	9010.7	8338.8	8072.9	8097.1
60°	7313.9	7410.6	7691.0	8416.1	9605.3	9861.5	8430.6	7430.0	6830.5	6448.6	6453.5
62.5°	4137.9	4210.5	4428.0	5099.9	5839.5	6086.1	5254.6	4587.5	4171.8	3959.1	3891.4
65°	1522.7	1493.7	1527.6	1870.7	2325.2	2533.1	2185.0	1846.6	1629.1	1551.7	1522.7
67.5°	570.4	526.9	493.1	526.9	662.3	700.9	642.9	536.6	502.8	517.2	526.9
70°	352.9	333.6	265.9	251.3	246.6	241.7	256.2	270.7	309.4	362.5	372.2
72.5°	246.6	232.0	188.5	178.8	169.2	164.4	188.5	207.9	241.7	280.4	285.2
75°	96.7	101.5	96.7	106.3	111.2	116.0	135.4	149.9	164.4	164.4	159.5
77.5°	19.3	19.3	29.0	38.7	48.3	62.9	91.8	106.3	111.2	106.3	91.8
80°	0.0	0.0	9.6	19.3	38.7	53.2	82.2	91.8	101.5	91.8	72.5
82.5°	0.0	0.0	9.6	24.2	38.7	48.3	77.4	96.7	111.2	101.5	77.4
85°	0.0	0.0	9.6	19.3	29.0	33.8	33.8	24.2	24.2	14.5	9.6
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)