

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: P531029

Luminaire Tested: **GALN-SA6B-740-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-740-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20250 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

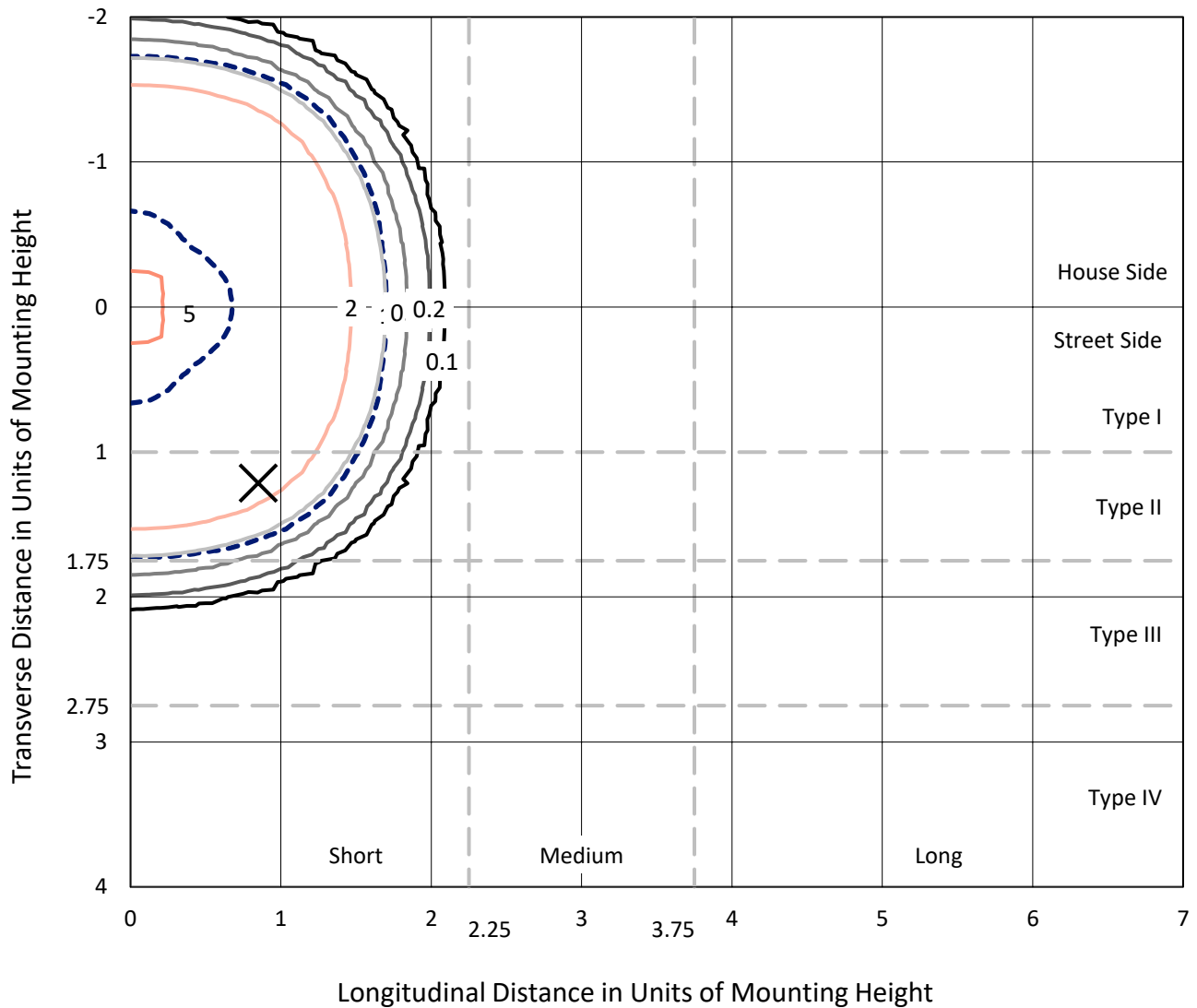
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

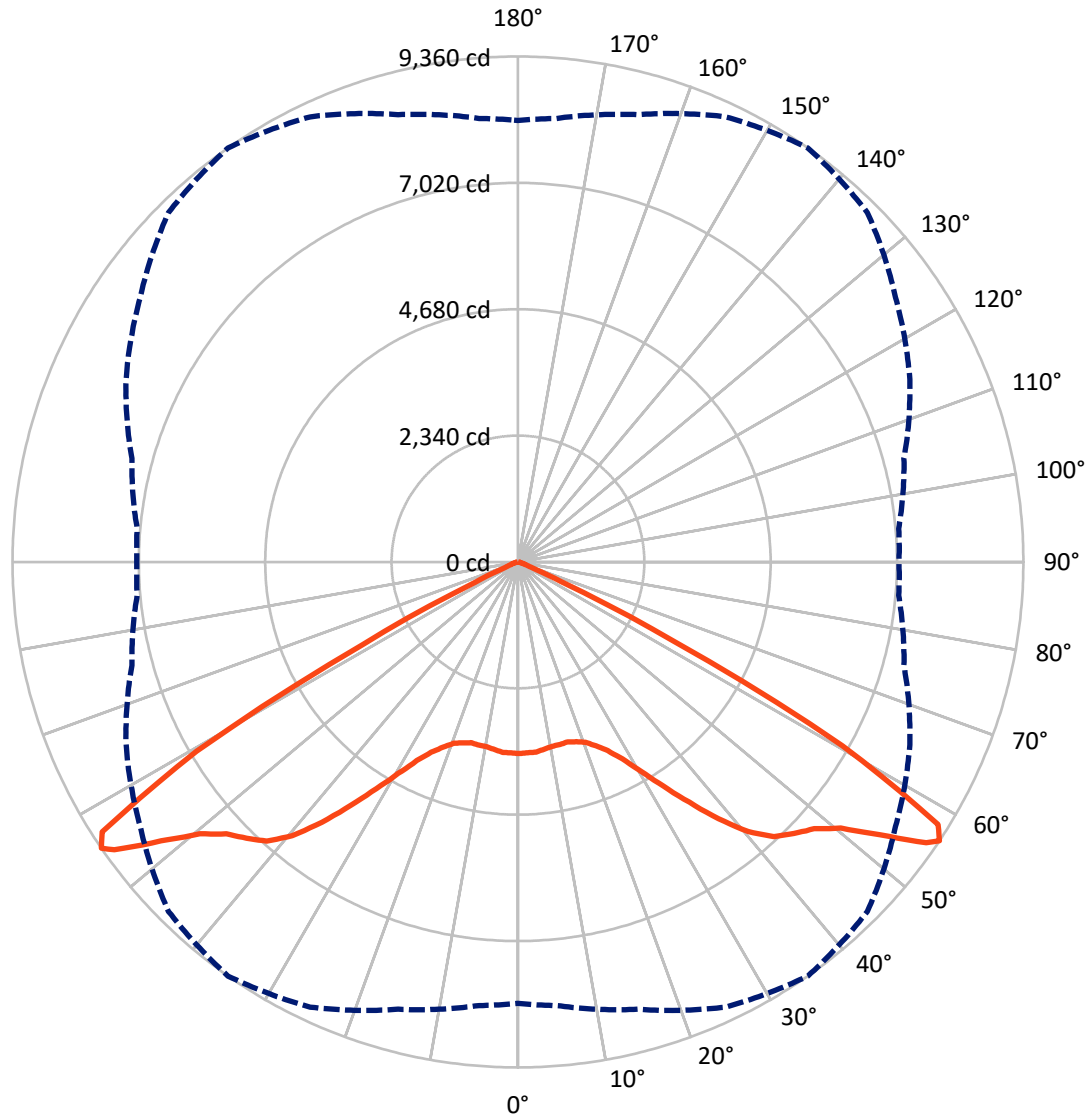
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10125.0	0.0	10125.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10125.0	0.0	10125.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20250.0	0.0	20250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.5	1.6
10°-20°	973.6	4.8
20°-30°	1763.1	8.7
30°-40°	3269.3	16.1
40°-50°	5366.4	26.5
50°-60°	6913.5	34.1
60°-70°	1523.7	7.5
70°-80°	88.4	0.4
80°-90°	18.6	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°	20250.0	100.0
0°-180°	20250.0	100.0

Coefficient of Utilization



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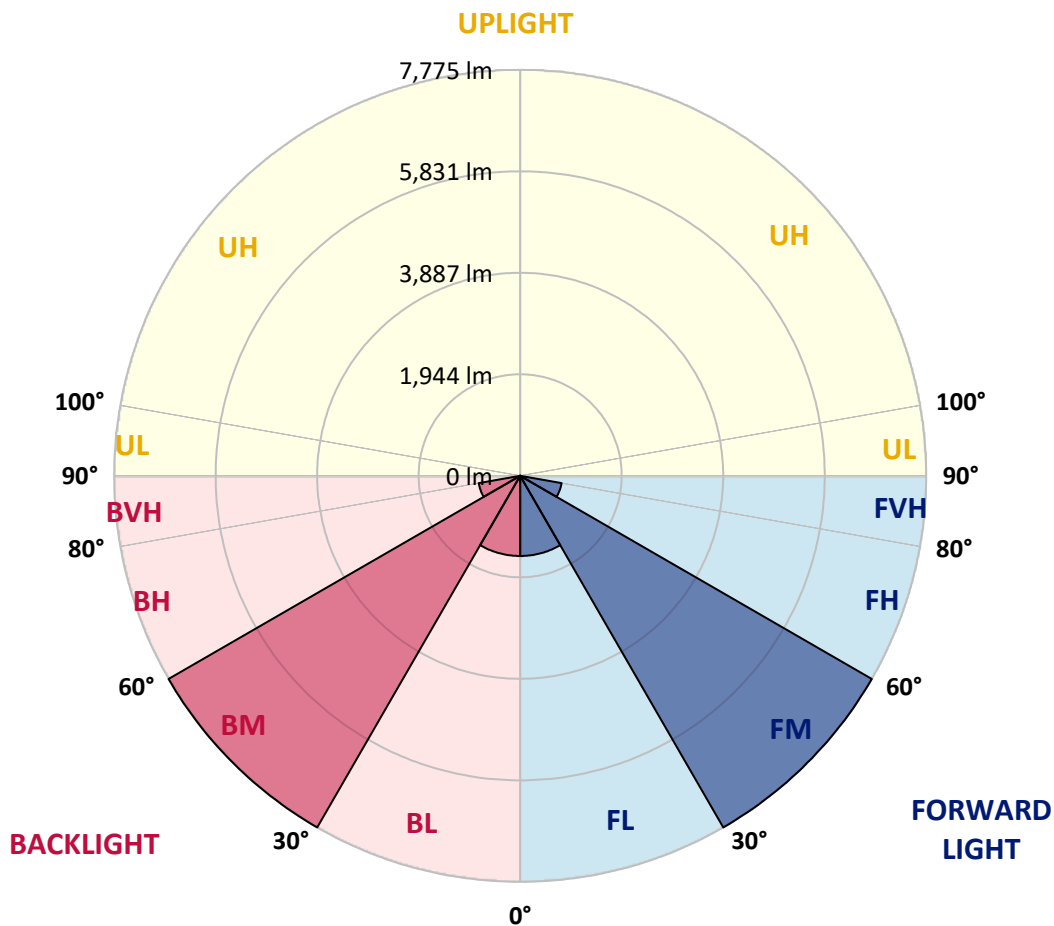
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1535.1	7.6			
FM (30°-60°)	7774.6	38.4			
FH (60°-80°)	806.0	4.0			G1/1800
FVH (80°-90°)	9.3	0.0			G0/10
BL (0°-30°)	1535.1	7.6	B3/2500		
BM (30°-60°)	7774.6	38.4	B4/8500		
BH (60°-80°)	806.0	4.0	B2/1000		G1/1800
BVH (80°-90°)	9.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3548.2	3548.2	3548.2	3548.2	3548.2	3548.2	3548.2	3548.2	3548.2	3548.2	3548.2
2.5°	3555.6	3555.6	3559.2	3562.9	3537.2	3526.2	3529.9	3522.6	3518.9	3529.9	3529.9
5°	3544.6	3544.6	3533.6	3537.2	3537.2	3504.2	3504.2	3511.5	3511.5	3489.5	3482.2
7.5°	3515.2	3507.9	3493.2	3511.5	3500.5	3500.5	3474.8	3456.5	3449.2	3463.8	3449.2
10°	3452.8	3456.5	3471.2	3478.5	3471.2	3493.2	3449.2	3423.5	3397.8	3386.8	3386.8
12.5°	3423.5	3445.5	3423.5	3441.8	3467.5	3449.2	3423.5	3405.1	3368.4	3353.8	3353.8
15°	3419.8	3434.5	3441.8	3467.5	3456.5	3463.8	3412.5	3390.5	3335.4	3309.7	3298.7
17.5°	3416.1	3434.5	3445.5	3493.2	3500.5	3504.2	3463.8	3397.8	3350.1	3324.4	3298.7
20°	3456.5	3463.8	3485.9	3533.6	3562.9	3614.3	3540.9	3471.2	3368.4	3339.1	3328.1
22.5°	3507.9	3544.6	3566.6	3618.0	3695.0	3739.0	3643.6	3555.6	3449.2	3412.5	3368.4
25°	3673.0	3665.7	3702.3	3808.8	3871.1	3904.2	3827.1	3698.7	3559.2	3515.2	3522.6
27.5°	3878.5	3885.8	3918.8	4036.3	4128.0	4179.4	4087.6	3918.8	3783.1	3709.7	3702.3
30°	4146.3	4139.0	4175.7	4333.5	4498.6	4575.6	4414.2	4216.1	4084.0	3988.6	4010.6
32.5°	4428.9	4432.5	4535.3	4678.4	4946.2	5096.7	4836.2	4594.0	4395.8	4329.8	4296.8
35°	4847.2	4865.5	4946.2	5166.4	5463.6	5658.1	5371.9	5082.0	4854.5	4733.4	4748.1
37.5°	5364.6	5346.2	5482.0	5720.5	6032.4	6175.5	5933.3	5603.1	5371.9	5291.2	5342.5
40°	5914.9	5933.3	6003.0	6219.5	6568.1	6663.5	6303.9	6124.1	5922.3	5881.9	5944.3
42.5°	6465.3	6454.3	6505.7	6700.2	6953.4	6887.3	6674.5	6568.1	6425.0	6344.3	6428.7
45°	6869.0	6850.6	6946.0	7078.1	7169.9	7045.1	6949.7	6913.0	6839.6	6751.6	6828.6
47.5°	7261.6	7246.9	7338.6	7375.3	7382.7	7217.6	7235.9	7302.0	7118.5	6935.0	7023.1
50°	7595.5	7569.8	7683.6	7764.3	7745.9	7481.7	7547.8	7481.7	7195.5	6979.1	6946.0
52.5°	8153.2	8164.2	8285.3	8432.1	8388.1	8167.9	8072.5	7771.6	7404.7	7210.2	7096.5
55°	8505.5	8450.5	8659.6	9125.6	9177.0	8949.5	8527.5	8083.5	7533.1	7294.6	7265.3
56°	8175.3	8245.0	8575.2	9096.3	9360.4	9151.3	8538.5	8006.5	7401.0	7078.1	7056.1
57.5°	7335.0	7298.3	7745.9	8457.8	9177.0	9088.9	8237.6	7456.1	6751.6	6388.3	6344.3
60°	4564.6	4671.0	5063.7	5944.3	6905.7	6949.7	6105.8	5434.3	4612.3	4289.4	4366.5
62.5°	1787.0	1695.2	1941.1	2597.9	3258.4	3405.1	3085.9	2564.9	2106.2	1787.0	1764.9
65°	414.6	403.6	455.0	627.5	877.0	1016.4	965.0	693.5	510.0	484.4	447.7
67.5°	234.8	234.8	223.8	223.8	245.8	260.5	249.5	245.8	256.9	267.9	264.2
70°	165.1	161.5	154.1	157.8	150.4	150.4	161.5	179.8	194.5	194.5	198.1
72.5°	99.1	99.1	99.1	110.1	110.1	110.1	121.1	135.8	139.4	135.8	132.1
75°	44.0	44.0	51.4	62.4	69.7	73.4	84.4	91.7	99.1	91.7	84.4
77.5°	11.0	11.0	18.3	25.7	33.0	40.4	55.0	66.0	69.7	66.0	55.0
80°	3.7	3.7	7.3	18.3	33.0	40.4	55.0	58.7	62.4	55.0	44.0
82.5°	3.7	3.7	7.3	18.3	25.7	33.0	44.0	51.4	55.0	47.7	44.0
85°	0.0	3.7	7.3	14.7	22.0	29.4	29.4	22.0	18.3	11.0	14.7
87.5°	0.0	0.0	3.7	3.7	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)