

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: P532589

Luminaire Tested: **GALN-SA8A-727-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532589
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-SA8A-727-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA 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: 18535 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

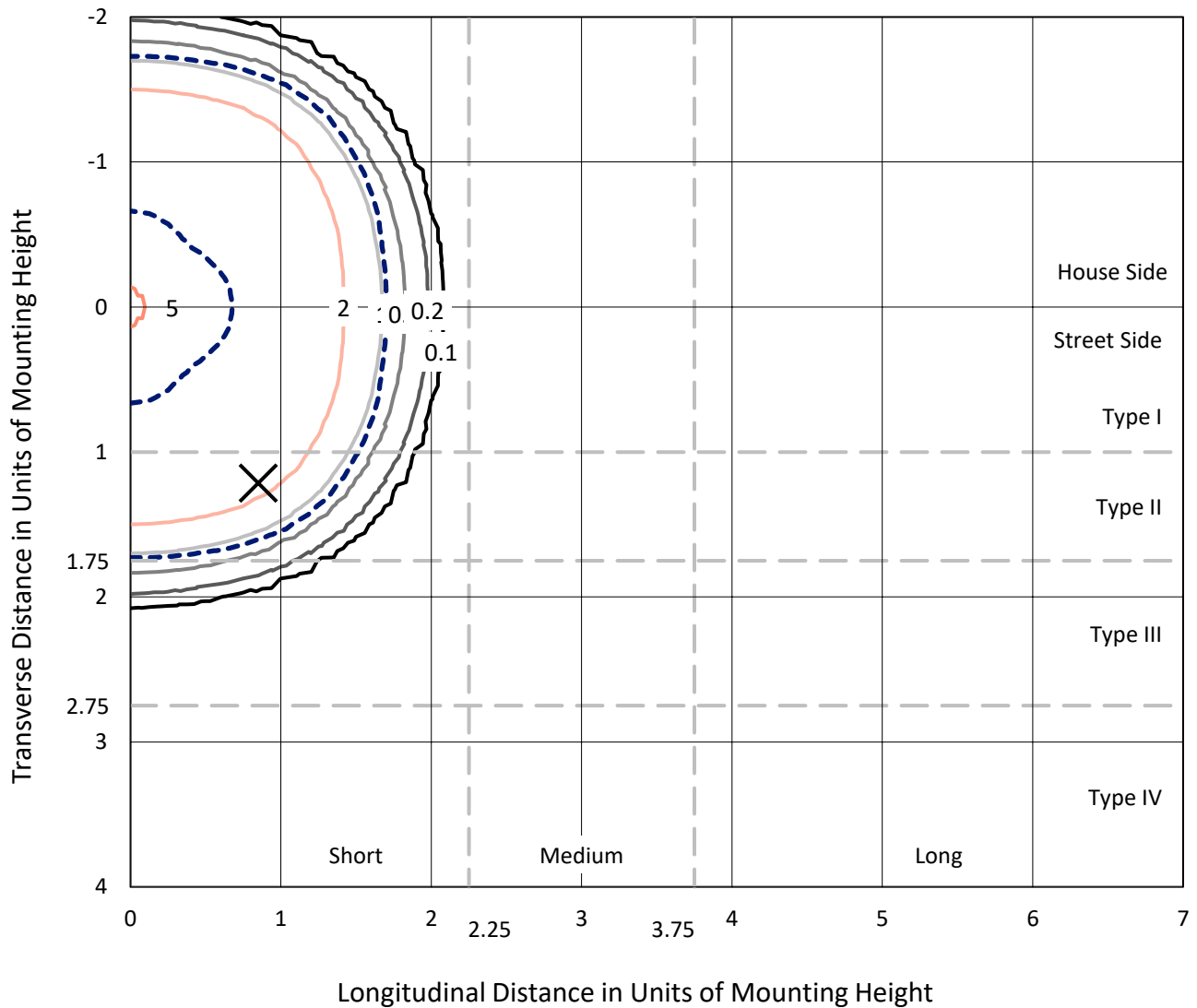
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

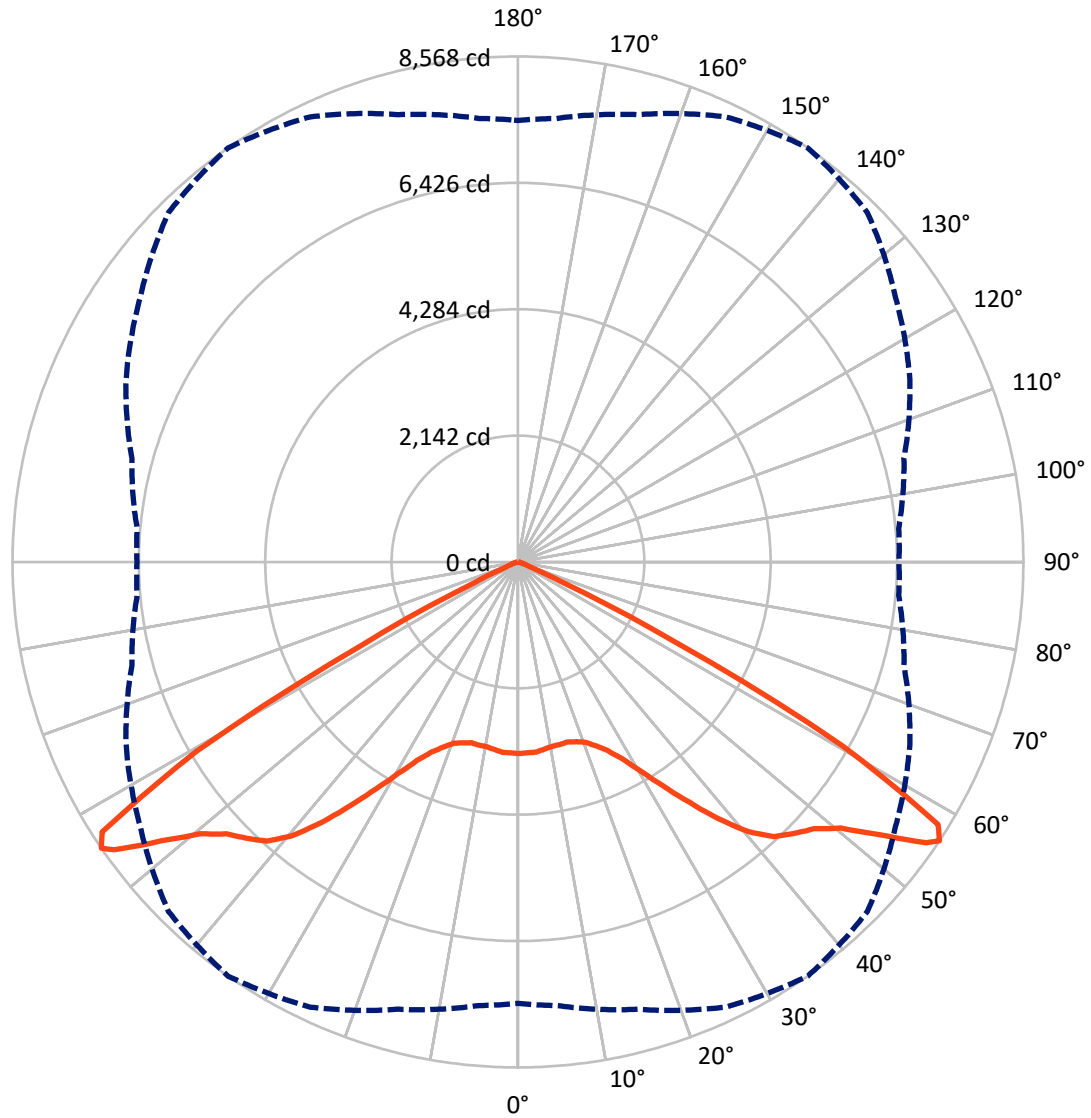
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	9267.5	0.0	9267.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9267.5	0.0	9267.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18535.0	0.0	18535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.2	1.6
10°-20°	891.1	4.8
20°-30°	1613.7	8.7
30°-40°	2992.4	16.1
40°-50°	4911.9	26.5
50°-60°	6328.0	34.1
60°-70°	1394.6	7.5
70°-80°	80.9	0.4
80°-90°	17.0	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°	18535.0	100.0
0°-180°	18535.0	100.0

Coefficient of Utilization



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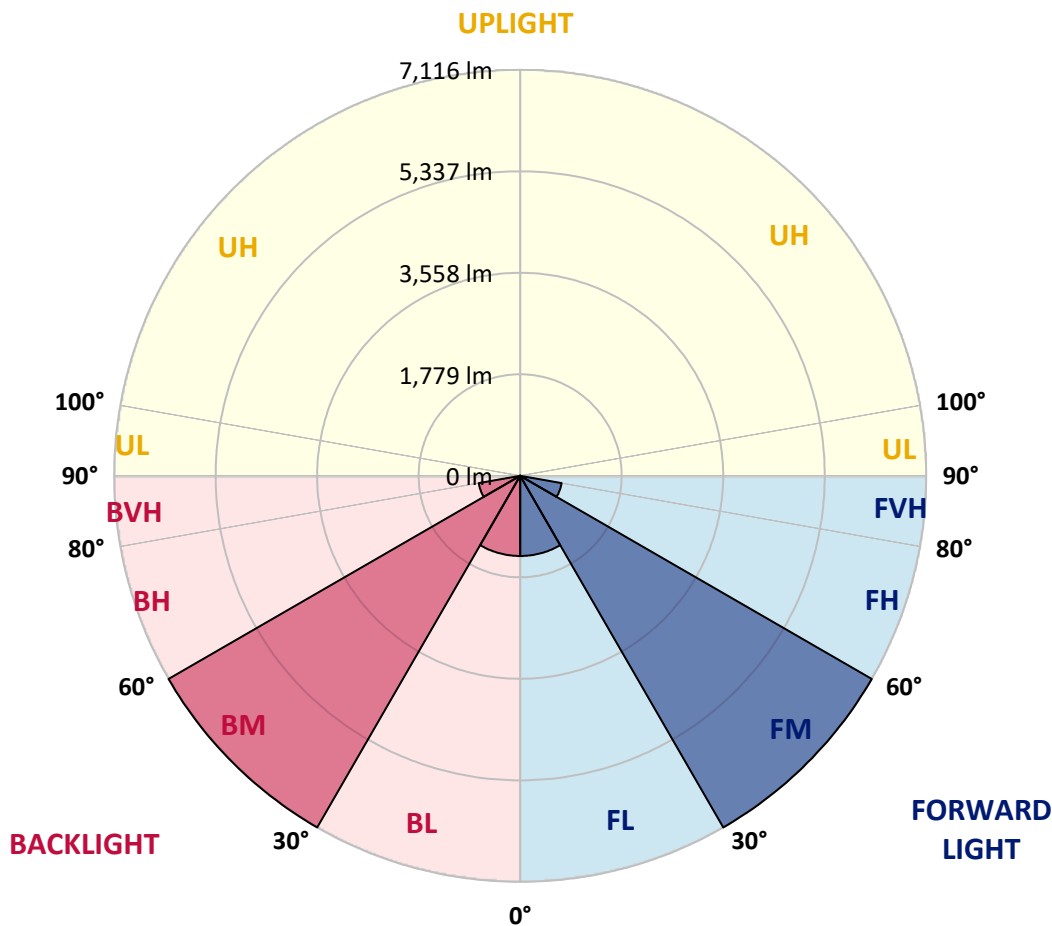
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1405.1	7.6			
FM (30°-60°)	7116.2	38.4			
FH (60°-80°)	737.8	4.0			G1/1800
FVH (80°-90°)	8.5	0.0			G0/10
BL (0°-30°)	1405.1	7.6	B3/2500		
BM (30°-60°)	7116.2	38.4	B4/8500		
BH (60°-80°)	737.8	4.0	B2/1000		G1/1800
BVH (80°-90°)	8.5	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°	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7	3247.7
2.5°	3254.4	3254.4	3257.8	3261.2	3237.7	3227.6	3230.9	3224.2	3220.9	3230.9	3230.9
5°	3244.4	3244.4	3234.3	3237.7	3237.7	3207.4	3207.4	3214.1	3214.1	3194.0	3187.3
7.5°	3217.5	3210.8	3197.4	3214.1	3204.1	3204.1	3180.6	3163.8	3157.0	3170.5	3157.0
10°	3160.4	3163.8	3177.2	3183.9	3177.2	3197.4	3157.0	3133.5	3110.0	3100.0	3100.0
12.5°	3133.5	3153.7	3133.5	3150.3	3173.8	3157.0	3133.5	3116.7	3083.2	3069.7	3069.7
15°	3130.2	3143.6	3150.3	3173.8	3163.8	3170.5	3123.5	3103.3	3052.9	3029.4	3019.3
17.5°	3126.8	3143.6	3153.7	3197.4	3204.1	3207.4	3170.5	3110.0	3066.4	3042.9	3019.3
20°	3163.8	3170.5	3190.6	3234.3	3261.2	3308.2	3241.0	3177.2	3083.2	3056.3	3046.2
22.5°	3210.8	3244.4	3264.5	3311.5	3382.1	3422.4	3335.1	3254.4	3157.0	3123.5	3083.2
25°	3361.9	3355.2	3388.8	3486.2	3543.3	3573.5	3503.0	3385.4	3257.8	3217.5	3224.2
27.5°	3550.0	3556.7	3586.9	3694.4	3778.4	3825.4	3741.4	3586.9	3462.7	3395.5	3388.8
30°	3795.2	3788.5	3822.0	3966.5	4117.6	4188.1	4040.4	3859.0	3738.1	3650.8	3670.9
32.5°	4053.8	4057.1	4151.2	4282.2	4527.3	4665.0	4426.6	4204.9	4023.6	3963.1	3932.9
35°	4436.7	4453.5	4527.3	4728.9	5000.9	5178.9	4916.9	4651.6	4443.4	4332.5	4346.0
37.5°	4910.2	4893.4	5017.7	5236.0	5521.5	5652.5	5430.8	5128.5	4916.9	4843.0	4890.1
40°	5414.0	5430.8	5494.6	5692.8	6011.8	6099.2	5770.0	5605.4	5420.7	5383.8	5440.9
42.5°	5917.8	5907.7	5954.7	6132.7	6364.5	6304.0	6109.2	6011.8	5880.8	5807.0	5884.2
45°	6287.2	6270.4	6357.8	6478.7	6562.6	6448.4	6361.1	6327.5	6260.4	6179.8	6250.3
47.5°	6646.6	6633.2	6717.1	6750.7	6757.4	6606.3	6623.1	6683.5	6515.6	6347.7	6428.3
50°	6952.2	6928.7	7032.8	7106.7	7089.9	6848.1	6908.6	6848.1	6586.1	6388.0	6357.8
52.5°	7462.7	7472.8	7583.6	7718.0	7677.7	7476.2	7388.8	7113.4	6777.6	6599.6	6495.5
55°	7785.1	7734.8	7926.2	8352.7	8399.8	8191.5	7805.3	7398.9	6895.1	6676.8	6650.0
56°	7482.9	7546.7	7849.0	8325.9	8567.7	8376.3	7815.4	7328.4	6774.2	6478.7	6458.5
57.5°	6713.8	6680.2	7089.9	7741.5	8399.8	8319.2	7540.0	6824.6	6179.8	5847.3	5807.0
60°	4178.1	4275.5	4634.8	5440.9	6320.8	6361.1	5588.6	4974.0	4221.7	3926.2	3996.7
62.5°	1635.6	1551.7	1776.7	2377.9	2982.4	3116.7	2824.6	2347.6	1927.8	1635.6	1615.5
65°	379.5	369.4	416.5	574.3	802.7	930.3	883.3	634.8	466.8	443.3	409.7
67.5°	214.9	214.9	204.9	204.9	225.0	238.5	228.4	225.0	235.1	245.2	241.8
70°	151.1	147.8	141.1	144.4	137.7	137.7	147.8	164.6	178.0	178.0	181.4
72.5°	90.7	90.7	90.7	100.8	100.8	100.8	110.8	124.3	127.6	124.3	120.9
75°	40.3	40.3	47.0	57.1	63.8	67.2	77.2	84.0	90.7	84.0	77.2
77.5°	10.1	10.1	16.8	23.5	30.2	36.9	50.4	60.5	63.8	60.5	50.4
80°	3.4	3.4	6.7	16.8	30.2	36.9	50.4	53.7	57.1	50.4	40.3
82.5°	3.4	3.4	6.7	16.8	23.5	30.2	40.3	47.0	50.4	43.7	40.3
85°	0.0	3.4	6.7	13.4	20.2	26.9	26.9	20.2	16.8	10.1	13.4
87.5°	0.0	0.0	3.4	3.4	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)