

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: P532359

Luminaire Tested: **GALN-SA7D-727-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532359
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-SA7D-727-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA 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: 23505 lumens
Efficiency: N/A
Efficacy: 54.3 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

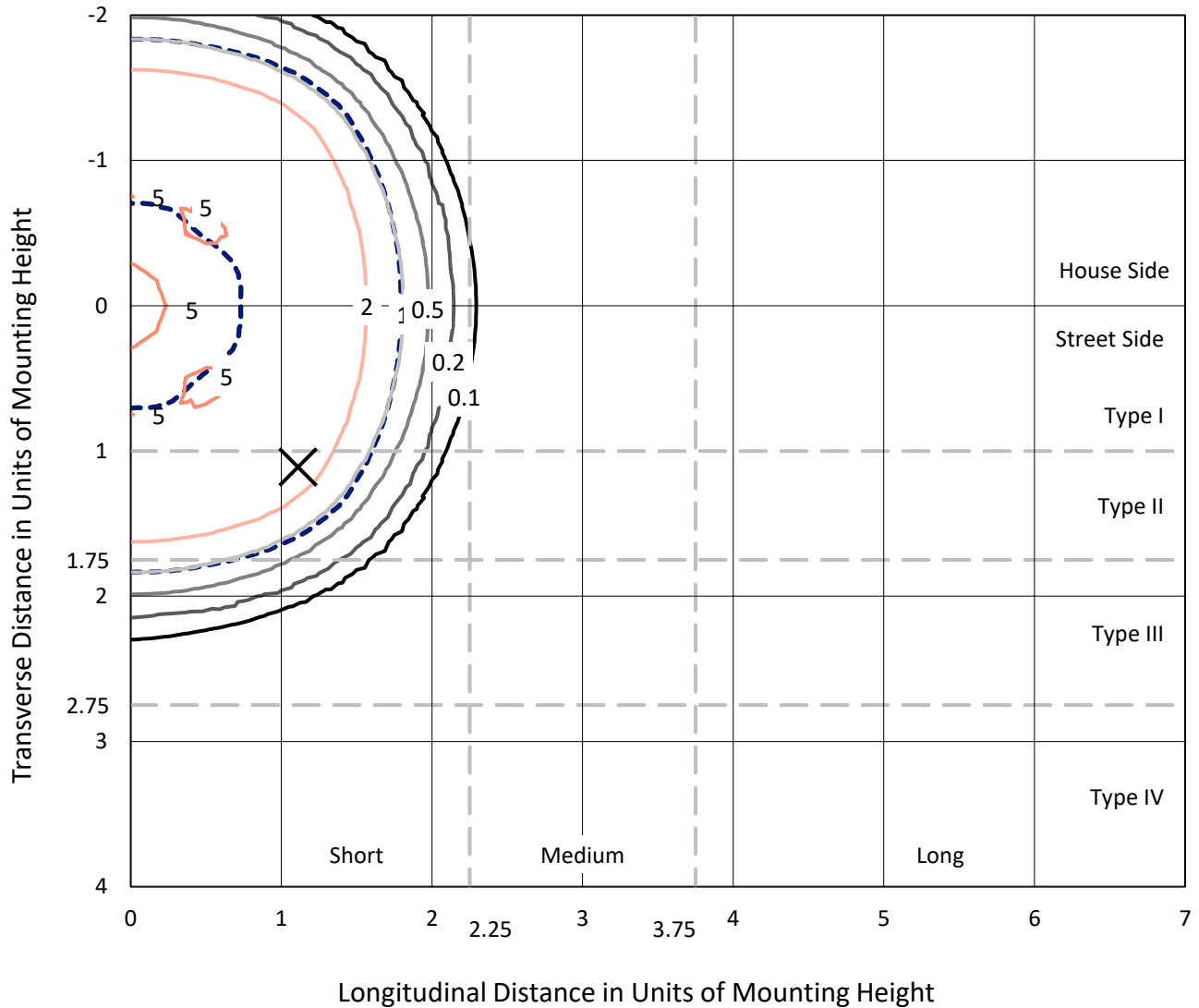
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

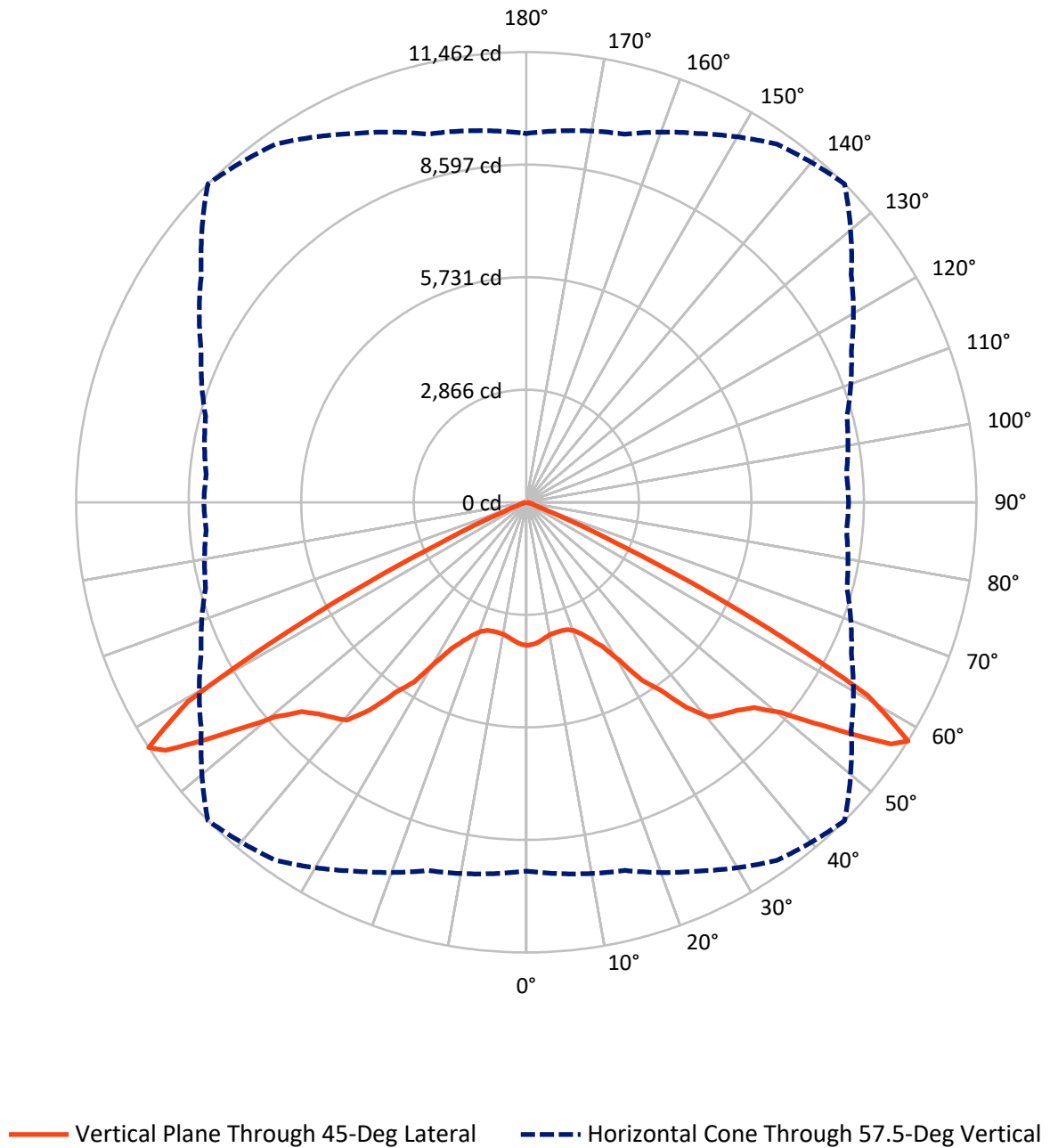
✕ Max cd
 - - - 1/2 Max cd



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	11752.5	0.0	11752.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11752.5	0.0	11752.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23505.0	0.0	23505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.0	1.4
10°-20°	968.4	4.1
20°-30°	1787.6	7.6
30°-40°	3515.5	15.0
40°-50°	5725.7	24.4
50°-60°	8165.6	34.7
60°-70°	2827.1	12.0
70°-80°	151.6	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°	23505.0	100.0
0°-180°	23505.0	100.0

Coefficient of Utilization

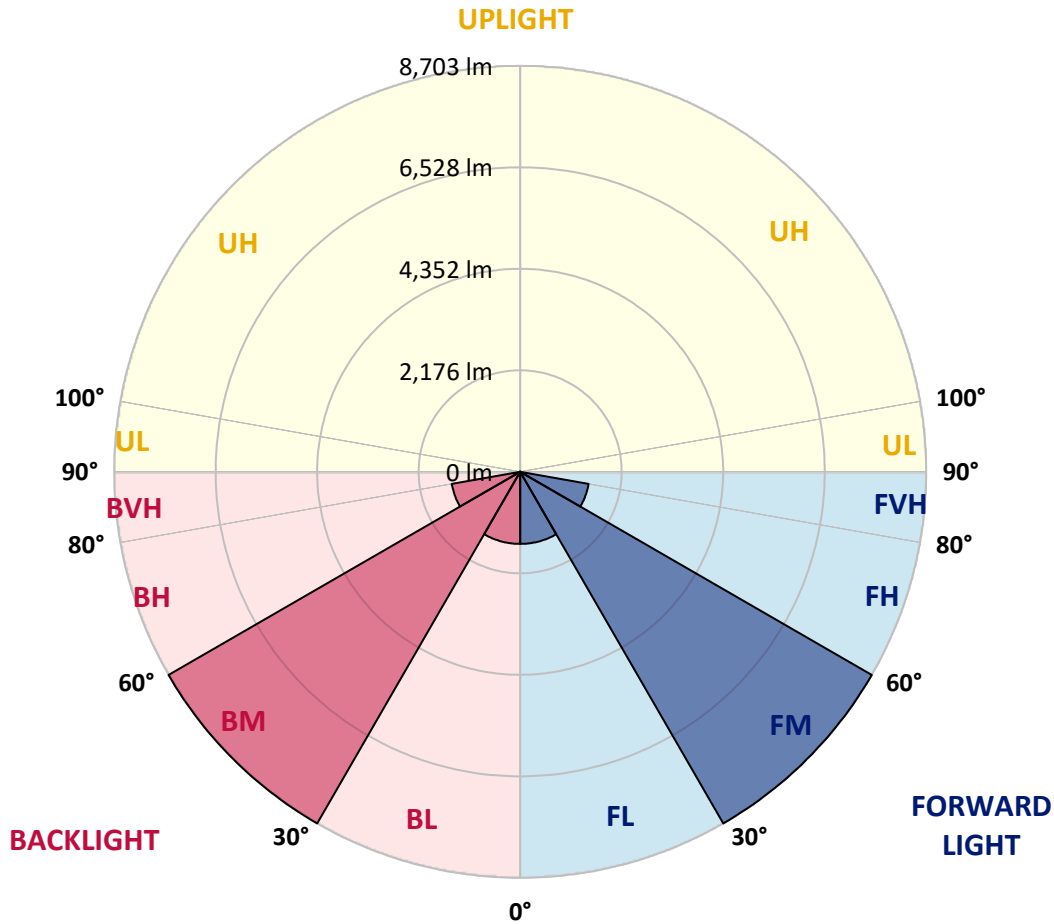


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1545.5	6.6			
FM (30°-60°)	8703.4	37.0			
FH (60°-80°)	1489.4	6.3			G1/1800
FVH (80°-90°)	14.2	0.1			G1/100
BL (0°-30°)	1545.5	6.6	B3/2500		
BM (30°-60°)	8703.4	37.0	B5		
BH (60°-80°)	1489.4	6.3	B3/2500		G1/1800
BVH (80°-90°)	14.2	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°	3645.9	3645.9	3645.9	3645.9	3645.9	3645.9	3645.9	3645.9	3645.9	3645.9	3645.9
2.5°	3636.1	3655.7	3631.2	3621.4	3616.5	3616.5	3601.8	3601.8	3596.9	3601.8	3582.2
5°	3577.3	3596.9	3596.9	3592.0	3562.6	3557.7	3543.0	3533.2	3538.1	3518.5	3533.2
7.5°	3518.5	3533.2	3513.6	3508.7	3498.9	3479.3	3474.4	3430.3	3435.2	3435.2	3445.0
10°	3508.7	3503.8	3474.4	3449.9	3420.5	3415.6	3400.9	3391.1	3391.1	3386.2	3400.9
12.5°	3508.7	3484.2	3479.3	3425.4	3376.4	3396.0	3356.8	3332.2	3366.6	3376.4	3396.0
15°	3503.8	3528.3	3445.0	3420.5	3386.2	3391.1	3356.8	3332.2	3351.8	3361.7	3376.4
17.5°	3533.2	3518.5	3494.0	3445.0	3430.3	3410.7	3366.6	3346.9	3346.9	3371.5	3376.4
20°	3611.6	3572.4	3523.4	3498.9	3513.6	3489.1	3435.2	3361.7	3381.3	3400.9	3415.6
22.5°	3685.1	3655.7	3621.4	3606.7	3690.0	3650.8	3557.7	3474.4	3445.0	3479.3	3503.8
25°	3827.2	3827.2	3763.5	3783.1	3876.2	3881.1	3773.3	3626.3	3606.7	3621.4	3631.2
27.5°	4116.3	4131.0	4077.1	4096.7	4135.9	4170.2	4077.1	3954.6	3910.5	3905.6	3920.3
30°	4429.9	4459.3	4454.4	4537.7	4650.4	4670.0	4532.8	4331.9	4199.6	4175.1	4194.7
32.5°	4841.6	4856.3	4846.5	4944.5	5248.3	5390.4	5032.7	4748.5	4572.0	4616.1	4572.0
35°	5615.8	5601.1	5493.3	5512.9	5762.8	5865.7	5522.7	5341.4	5258.1	5346.3	5326.7
37.5°	6282.3	6228.4	6140.2	6267.6	6527.3	6620.4	6262.7	5944.1	5792.2	5939.2	6002.9
40°	6845.8	6708.6	6586.1	6713.5	7061.4	7188.8	6664.5	6404.8	6346.0	6453.8	6591.0
42.5°	7321.1	7232.9	7071.2	7081.0	7311.3	7370.1	6948.7	6796.8	6738.0	6909.5	6978.1
45°	7659.3	7576.0	7424.1	7414.3	7590.7	7551.5	7174.1	7071.2	7105.5	7218.2	7252.5
47.5°	7830.8	7874.9	7786.7	7811.2	7904.3	7811.2	7512.3	7512.3	7433.9	7502.5	7468.2
50°	8325.7	8188.5	8301.2	8301.2	8399.2	8409.0	8110.1	8002.3	7791.6	7674.0	7674.0
52.5°	8904.0	8913.8	8957.9	9119.6	9286.2	9428.3	9002.0	8541.3	8188.5	8036.6	8017.0
55°	9379.3	9477.3	9653.7	9957.5	10437.8	10633.8	9898.7	9075.5	8644.2	8409.0	8360.0
56°	9639.0	9545.9	9849.7	10266.3	10893.5	11148.3	10045.7	9183.3	8707.9	8443.3	8438.4
57.5°	9389.1	9492.0	9702.7	10359.4	11128.7	11462.0	10099.7	9134.3	8453.1	8183.6	8208.1
60°	7414.3	7512.3	7796.5	8531.5	9737.0	9996.7	8546.2	7531.9	6924.2	6537.1	6542.0
62.5°	4194.7	4268.2	4488.7	5169.9	5919.6	6169.6	5326.7	4650.4	4229.0	4013.4	3944.8
65°	1543.6	1514.2	1548.5	1896.4	2357.1	2567.8	2215.0	1871.9	1651.4	1573.0	1543.6
67.5°	578.2	534.1	499.8	534.1	671.4	710.6	651.7	543.9	509.6	524.3	534.1
70°	357.7	338.1	269.5	254.8	249.9	245.0	259.7	274.4	313.6	367.5	377.3
72.5°	249.9	235.2	191.1	181.3	171.5	166.6	191.1	210.7	245.0	284.2	289.1
75°	98.0	102.9	98.0	107.8	112.7	117.6	137.2	151.9	166.6	166.6	161.7
77.5°	19.6	19.6	29.4	39.2	49.0	63.7	93.1	107.8	112.7	107.8	93.1
80°	0.0	0.0	9.8	19.6	39.2	53.9	83.3	93.1	102.9	93.1	73.5
82.5°	0.0	0.0	9.8	24.5	39.2	49.0	78.4	98.0	112.7	102.9	78.4
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)