

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: P532385

Luminaire Tested: **GALN-SA7D-730-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532385
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-730-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 25596 lumens
Efficiency: N/A
Efficacy: 59.1 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

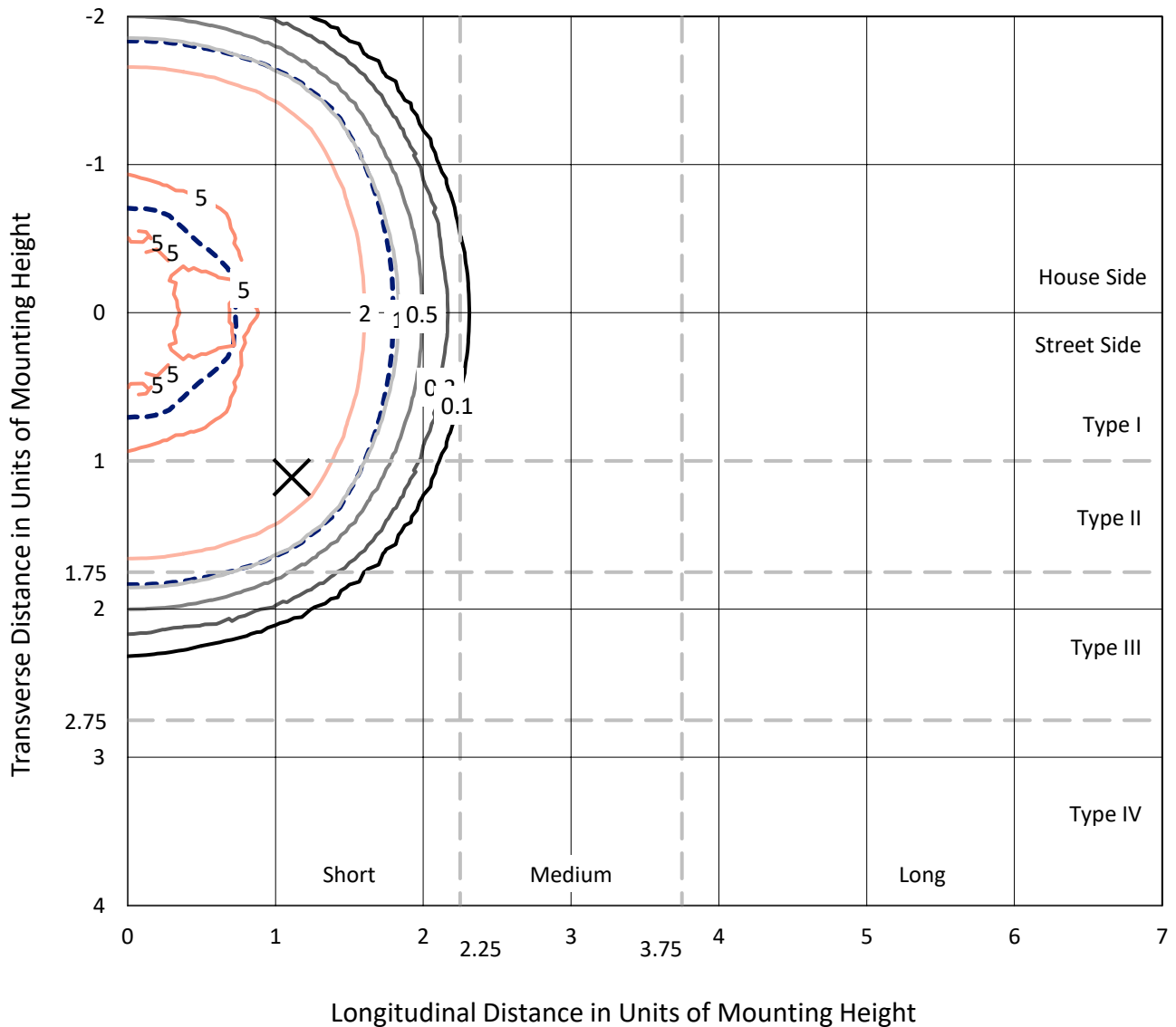
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

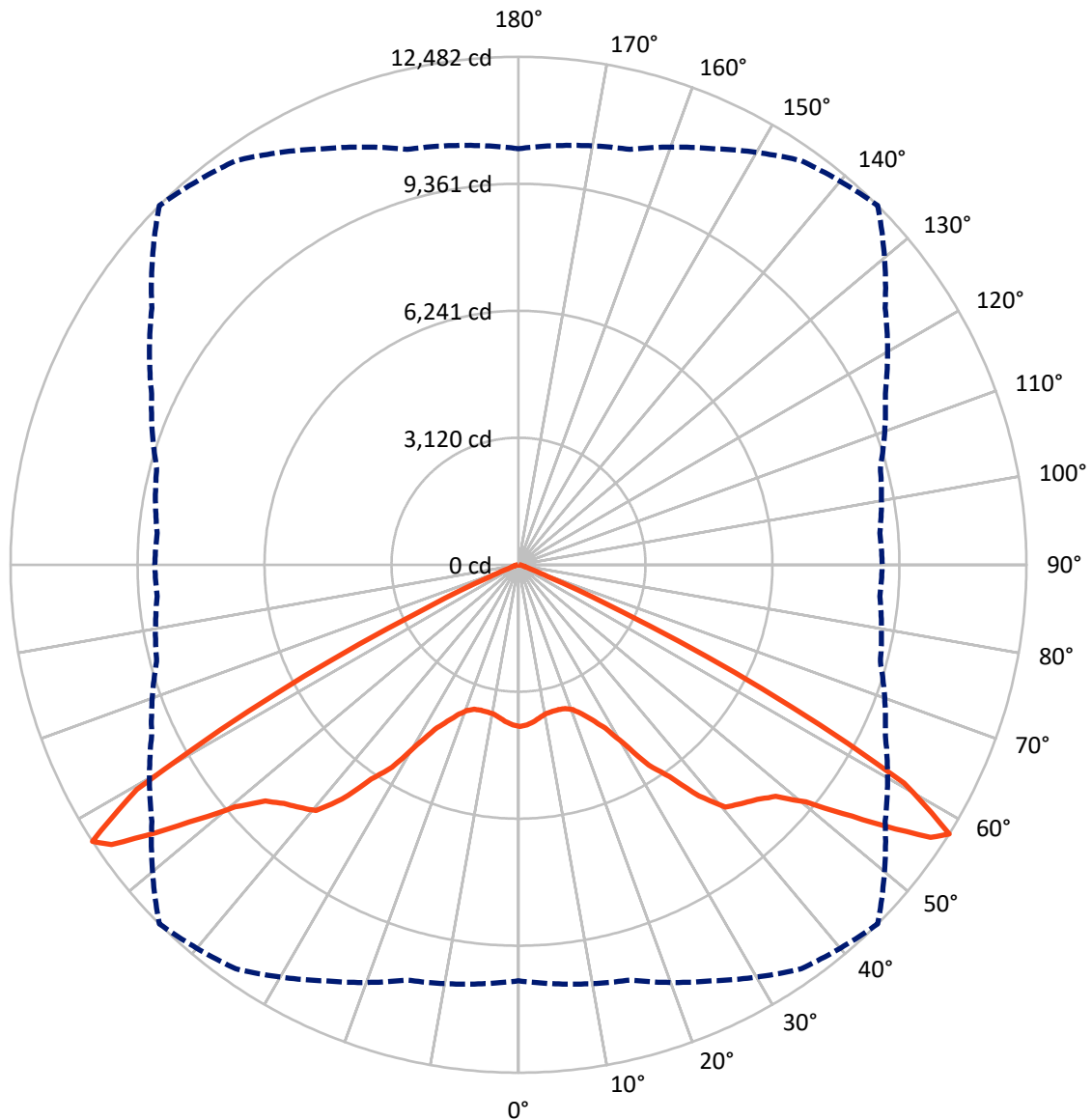
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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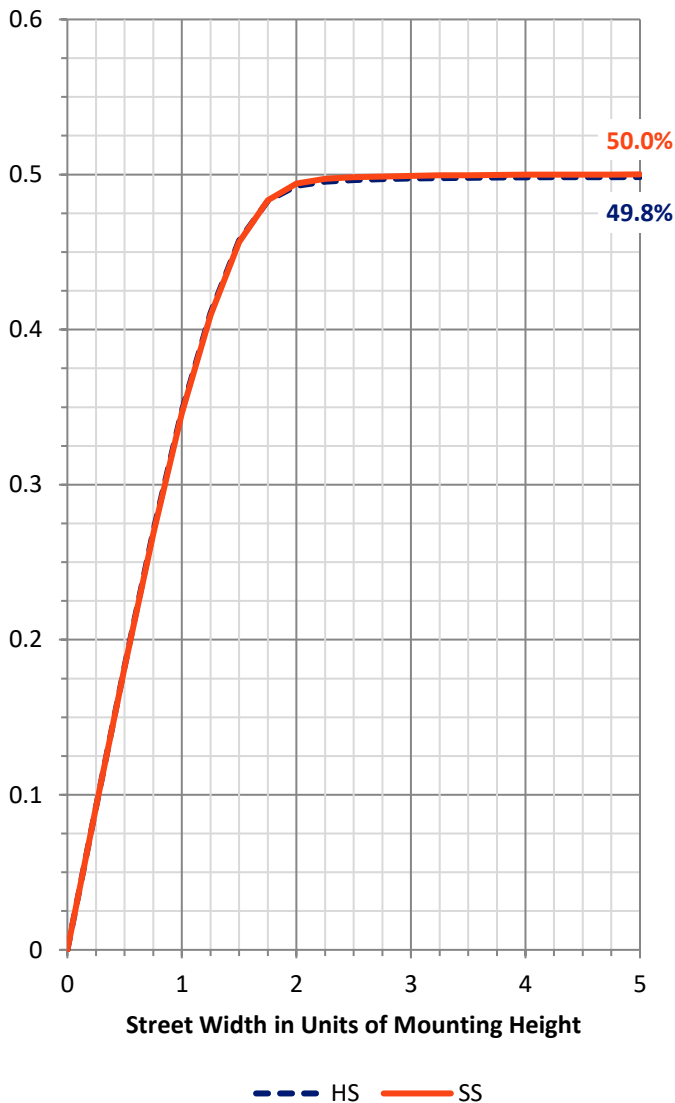
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12798.0	0.0	12798.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12798.0	0.0	12798.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25596.0	0.0	25596.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.8	1.4
10°-20°	1054.6	4.1
20°-30°	1946.6	7.6
30°-40°	3828.2	15.0
40°-50°	6235.1	24.4
50°-60°	8892.0	34.7
60°-70°	3078.6	12.0
70°-80°	165.1	0.6
80°-90°	31.0	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°	25596.0	100.0
0°-180°	25596.0	100.0



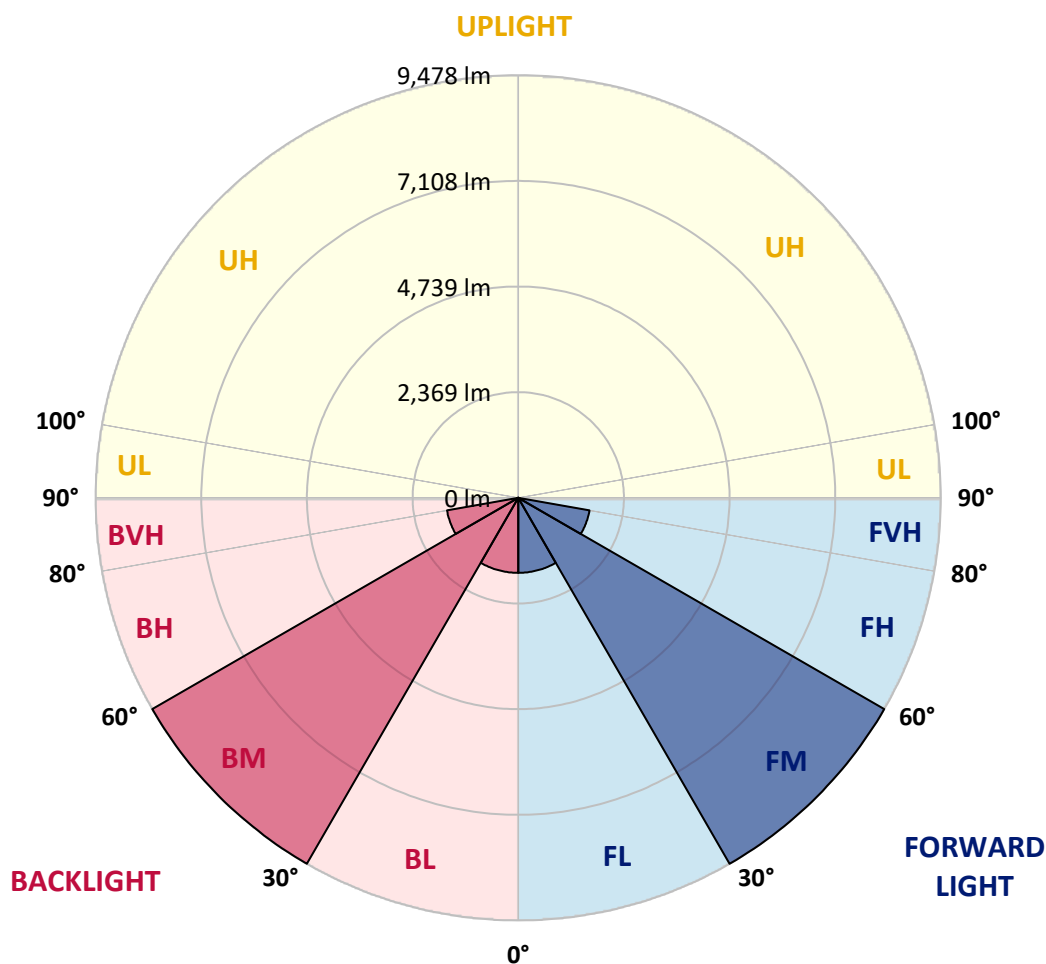
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1683.0	6.6			
FM (30°-60°)	9477.6	37.0			
FH (60°-80°)	1621.9	6.3			G1/1800
FVH (80°-90°)	15.5	0.1			G1/100
BL (0°-30°)	1683.0	6.6	B3/2500		
BM (30°-60°)	9477.6	37.0	B5		
BH (60°-80°)	1621.9	6.3	B3/2500		G1/1800
BVH (80°-90°)	15.5	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°	3970.2	3970.2	3970.2	3970.2	3970.2	3970.2	3970.2	3970.2	3970.2	3970.2	3970.2
2.5°	3959.5	3980.9	3954.2	3943.5	3938.2	3938.2	3922.2	3922.2	3916.8	3922.2	3900.8
5°	3895.5	3916.8	3916.8	3911.5	3879.5	3874.2	3858.1	3847.5	3852.8	3831.5	3847.5
7.5°	3831.5	3847.5	3826.1	3820.8	3810.1	3788.8	3783.4	3735.4	3740.7	3740.7	3751.4
10°	3820.8	3815.5	3783.4	3756.8	3724.7	3719.4	3703.4	3692.7	3692.7	3687.4	3703.4
12.5°	3820.8	3794.1	3788.8	3730.1	3676.7	3698.1	3655.4	3628.7	3666.0	3676.7	3698.1
15°	3815.5	3842.1	3751.4	3724.7	3687.4	3692.7	3655.4	3628.7	3650.0	3660.7	3676.7
17.5°	3847.5	3831.5	3804.8	3751.4	3735.4	3714.1	3666.0	3644.7	3644.7	3671.4	3676.7
20°	3932.9	3890.2	3836.8	3810.1	3826.1	3799.4	3740.7	3660.7	3682.0	3703.4	3719.4
22.5°	4012.9	3980.9	3943.5	3927.5	4018.2	3975.5	3874.2	3783.4	3751.4	3788.8	3815.5
25°	4167.7	4167.7	4098.3	4119.6	4221.0	4226.4	4109.0	3948.9	3927.5	3943.5	3954.2
27.5°	4482.5	4498.5	4439.8	4461.1	4503.8	4541.2	4439.8	4306.4	4258.4	4253.0	4269.0
30°	4824.0	4856.0	4850.7	4941.4	5064.1	5085.5	4936.1	4717.3	4573.2	4546.5	4567.9
32.5°	5272.3	5288.3	5277.6	5384.3	5715.2	5869.9	5480.4	5170.9	4978.8	5026.8	4978.8
35°	6115.4	6099.4	5982.0	6003.3	6275.5	6387.6	6014.0	5816.6	5725.9	5821.9	5800.6
37.5°	6841.1	6782.4	6686.4	6825.1	7108.0	7209.3	6819.8	6472.9	6307.5	6467.6	6537.0
40°	7454.8	7305.4	7172.0	7310.7	7689.6	7828.4	7257.4	6974.5	6910.5	7027.9	7177.3
42.5°	7972.4	7876.4	7700.3	7711.0	7961.8	8025.8	7566.9	7401.4	7337.4	7524.2	7598.9
45°	8340.6	8249.9	8084.5	8073.8	8265.9	8223.2	7812.3	7700.3	7737.6	7860.4	7897.7
47.5°	8527.4	8575.4	8479.4	8506.1	8607.5	8506.1	8180.5	8180.5	8095.2	8169.9	8132.5
50°	9066.4	8917.0	9039.7	9039.7	9146.4	9157.1	8831.6	8714.2	8484.7	8356.6	8356.6
52.5°	9696.1	9706.7	9754.8	9930.9	10112.3	10267.0	9802.8	9301.2	8917.0	8751.5	8730.2
55°	10213.7	10320.4	10512.5	10843.4	11366.3	11579.8	10779.3	9882.8	9413.2	9157.1	9103.7
56°	10496.5	10395.1	10726.0	11179.5	11862.6	12140.1	10939.4	10000.2	9482.6	9194.4	9189.1
57.5°	10224.4	10336.4	10565.9	11280.9	12118.7	12481.6	10998.1	9946.9	9205.1	8911.6	8938.3
60°	8073.8	8180.5	8490.1	9290.5	10603.2	10886.1	9306.5	8201.9	7540.2	7118.6	7124.0
62.5°	4567.9	4647.9	4888.1	5629.8	6446.3	6718.4	5800.6	5064.1	4605.2	4370.4	4295.7
65°	1680.9	1648.9	1686.3	2065.1	2566.8	2796.2	2412.0	2038.5	1798.3	1713.0	1680.9
67.5°	629.7	581.7	544.3	581.7	731.1	773.8	709.7	592.3	555.0	571.0	581.7
70°	389.5	368.2	293.5	277.5	272.2	266.8	282.8	298.8	341.5	400.2	410.9
72.5°	272.2	256.1	208.1	197.4	186.8	181.4	208.1	229.5	266.8	309.5	314.8
75°	106.7	112.1	106.7	117.4	122.7	128.1	149.4	165.4	181.4	181.4	176.1
77.5°	21.3	21.3	32.0	42.7	53.4	69.4	101.4	117.4	122.7	117.4	101.4
80°	0.0	0.0	10.7	21.3	42.7	58.7	90.7	101.4	112.1	101.4	80.0
82.5°	0.0	0.0	10.7	26.7	42.7	53.4	85.4	106.7	122.7	112.1	85.4
85°	0.0	0.0	10.7	21.3	32.0	37.4	37.4	26.7	26.7	16.0	10.7
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)