

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: P651494

Luminaire Tested: **GALN-SA7D-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651494
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-840-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 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: 23637.1 lumens
Efficiency: N/A
Efficacy: 54.6 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

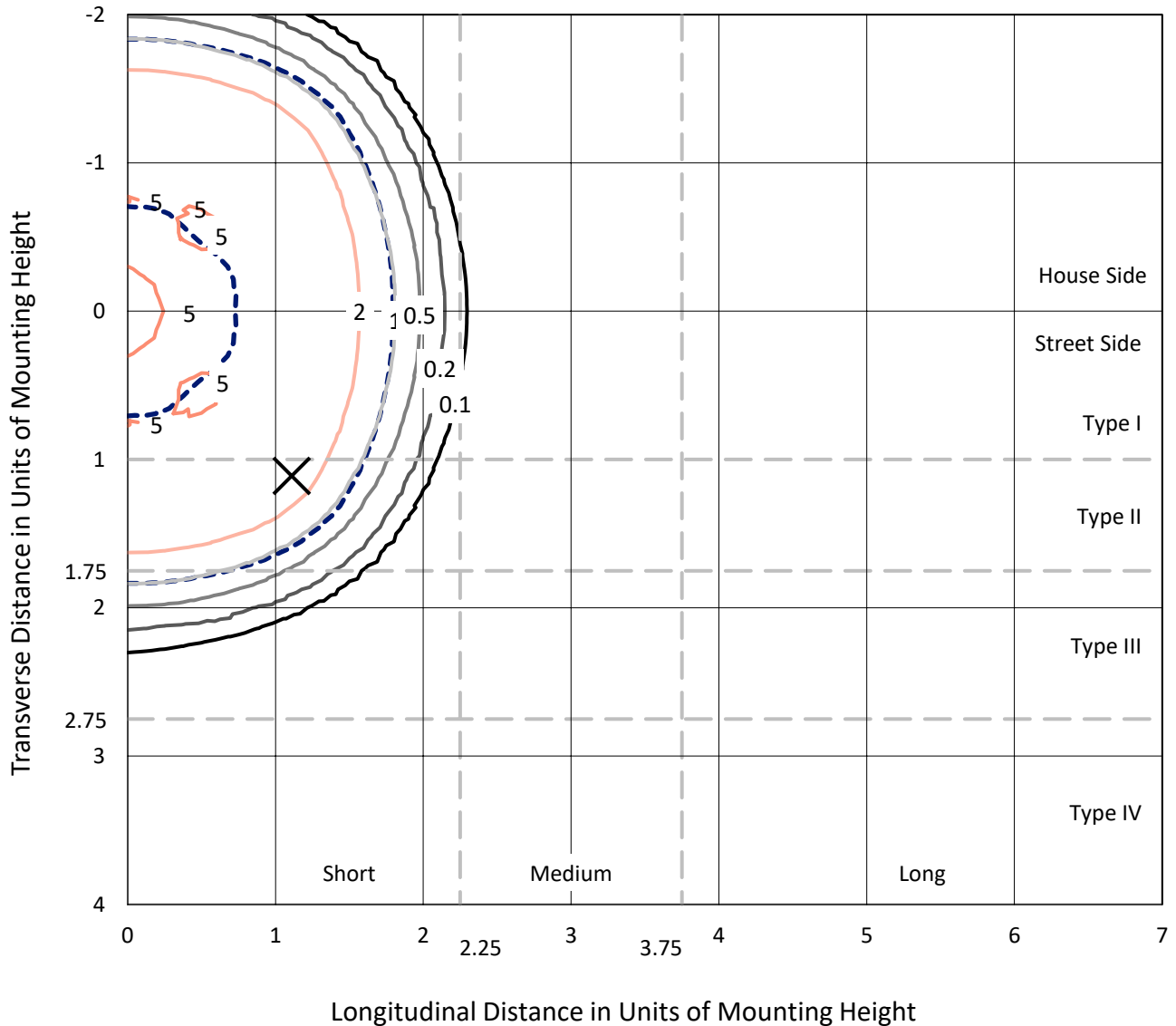
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

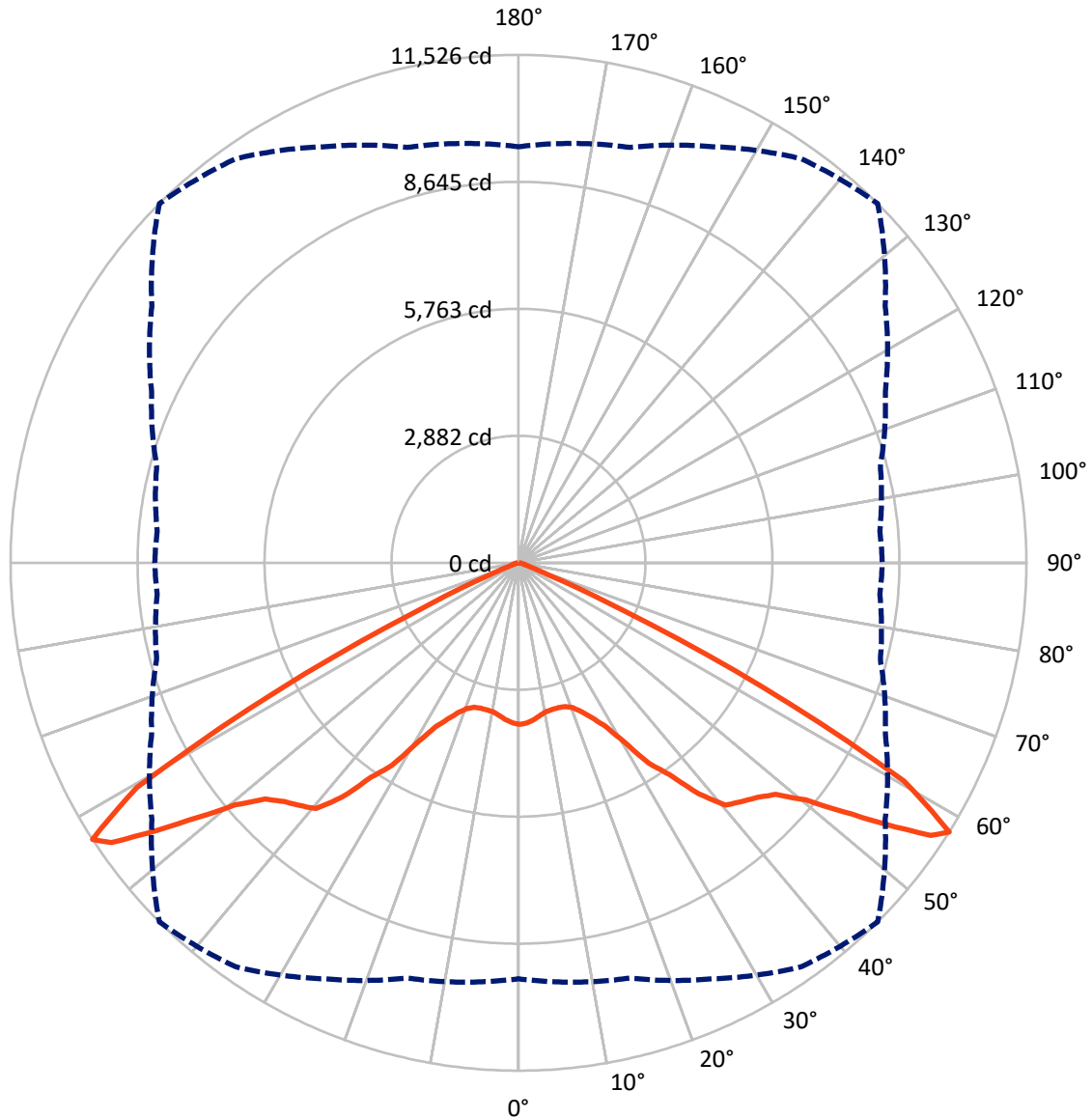
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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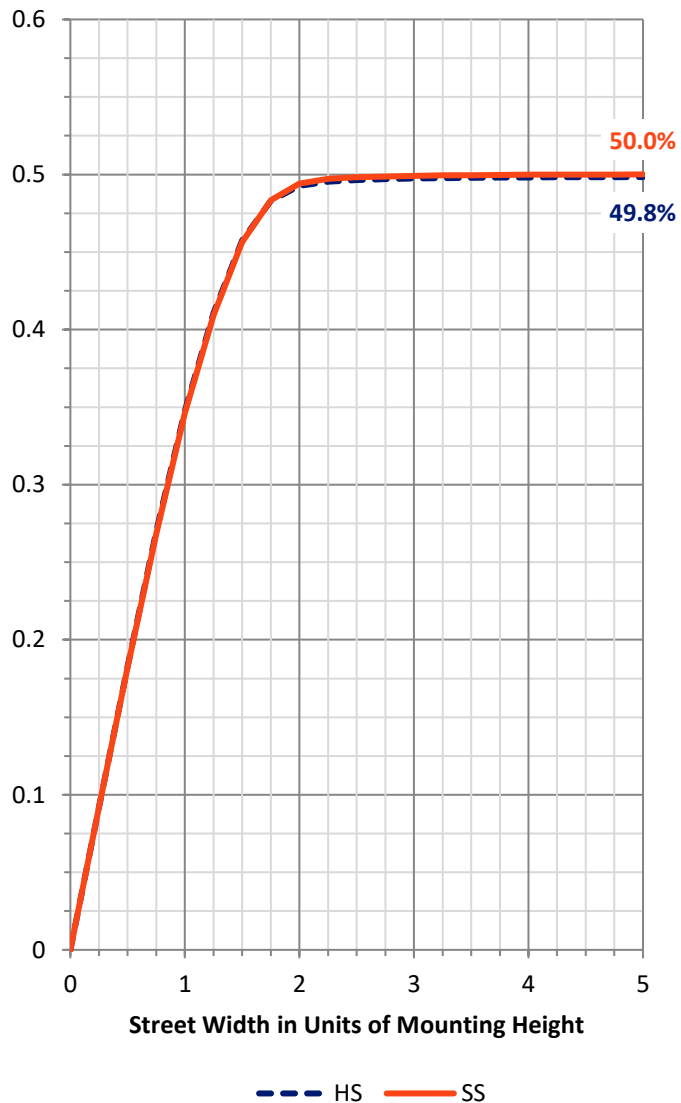
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11818.6	0.0	11818.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11818.6	0.0	11818.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	23637.1	0.0	23637.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.9	1.4
10°-20°	973.9	4.1
20°-30°	1797.6	7.6
30°-40°	3535.2	15.0
40°-50°	5757.9	24.4
50°-60°	8211.5	34.7
60°-70°	2843.0	12.0
70°-80°	152.5	0.6
80°-90°	28.6	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°	23637.1	100.0
0°-180°	23637.1	100.0

Coefficient of Utilization

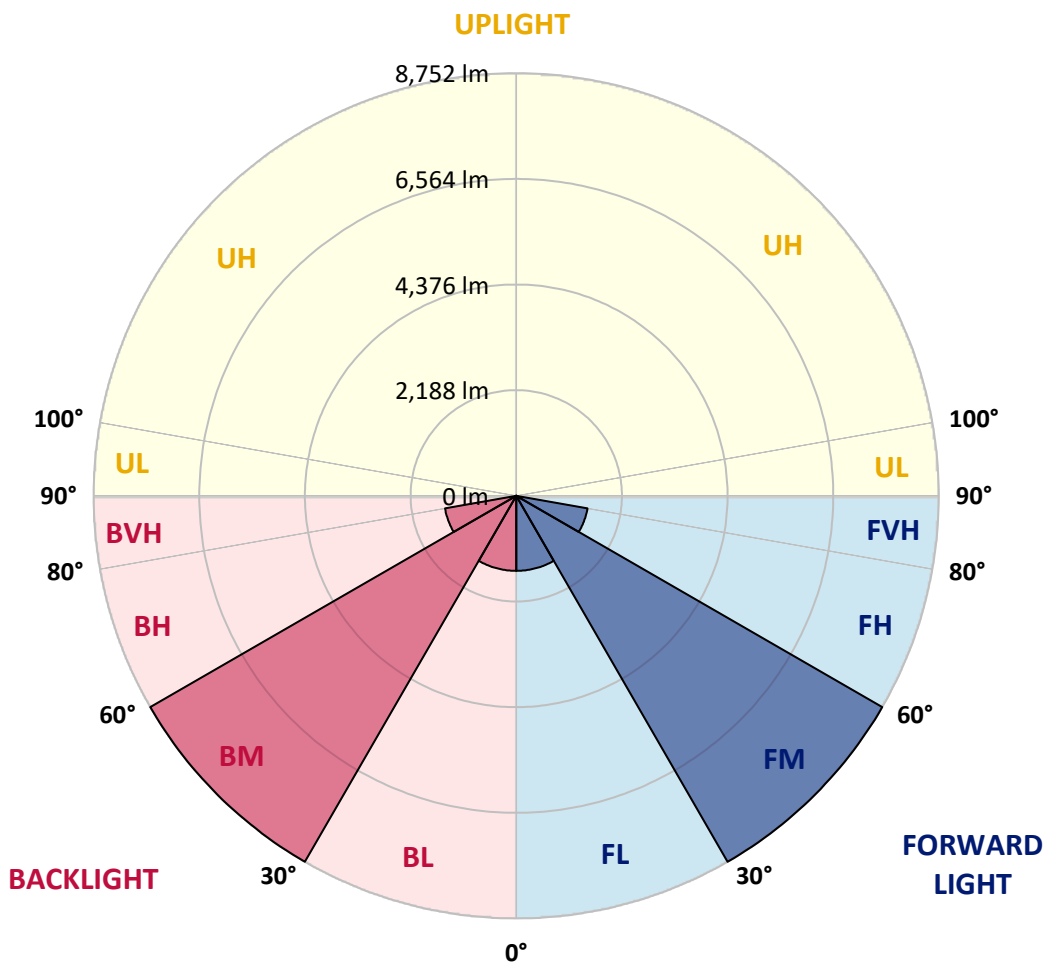


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1554.2	6.6			
FM (30°-60°)	8752.3	37.0			
FH (60°-80°)	1497.8	6.3			G1/1800
FVH (80°-90°)	14.3	0.1			G1/100
BL (0°-30°)	1554.2	6.6	B3/2500		
BM (30°-60°)	8752.3	37.0	B5		
BH (60°-80°)	1497.8	6.3	B3/2500		G1/1800
BVH (80°-90°)	14.3	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°	3666.3	3666.3	3666.3	3666.3	3666.3	3666.3	3666.3	3666.3	3666.3	3666.3	3666.3
2.5°	3656.5	3676.3	3651.6	3641.7	3636.8	3636.8	3622.0	3622.0	3617.1	3622.0	3602.3
5°	3597.4	3617.1	3617.1	3612.2	3582.6	3577.7	3562.9	3553.1	3557.9	3538.3	3553.1
7.5°	3538.3	3553.1	3533.3	3528.4	3518.5	3498.8	3493.9	3449.5	3454.5	3454.5	3464.3
10°	3528.4	3523.5	3493.9	3469.3	3439.7	3434.7	3420.0	3410.1	3410.1	3405.2	3420.0
12.5°	3528.4	3503.8	3498.8	3444.7	3395.4	3415.0	3375.6	3351.0	3385.4	3395.4	3415.0
15°	3523.5	3548.1	3464.3	3439.7	3405.2	3410.1	3375.6	3351.0	3370.7	3380.6	3395.4
17.5°	3553.1	3538.3	3513.6	3464.3	3449.5	3429.9	3385.4	3365.8	3365.8	3390.4	3395.4
20°	3631.9	3592.4	3543.1	3518.5	3533.3	3508.7	3454.5	3380.6	3400.2	3420.0	3434.7
22.5°	3705.8	3676.3	3641.7	3627.0	3710.7	3671.3	3577.7	3493.9	3464.3	3498.8	3523.5
25°	3848.7	3848.7	3784.7	3804.3	3898.0	3902.9	3794.5	3646.7	3627.0	3641.7	3651.6
27.5°	4139.5	4154.2	4100.0	4119.7	4159.2	4193.6	4100.0	3976.8	3932.5	3927.6	3942.4
30°	4454.9	4484.4	4479.5	4563.3	4676.6	4696.3	4558.3	4356.3	4223.2	4198.6	4218.3
32.5°	4868.8	4883.6	4873.7	4972.2	5277.8	5420.7	5061.0	4775.1	4597.7	4642.1	4597.7
35°	5647.4	5632.6	5524.2	5543.9	5795.2	5898.7	5553.8	5371.5	5287.6	5376.3	5356.7
37.5°	6317.6	6263.3	6174.7	6302.8	6564.0	6657.6	6297.9	5977.6	5824.8	5972.6	6036.7
40°	6884.3	6746.3	6623.1	6751.2	7101.2	7229.2	6701.9	6440.8	6381.7	6490.1	6628.0
42.5°	7362.3	7273.6	7111.0	7120.8	7352.4	7411.6	6987.8	6835.1	6775.9	6948.3	7017.4
45°	7702.3	7618.5	7465.8	7456.0	7633.3	7593.9	7214.4	7111.0	7145.5	7258.8	7293.3
47.5°	7874.8	7919.2	7830.5	7855.1	7948.7	7855.1	7554.5	7554.5	7475.6	7544.6	7510.1
50°	8372.5	8234.6	8347.9	8347.9	8446.4	8456.3	8155.7	8047.3	7835.3	7717.1	7717.1
52.5°	8954.0	8963.9	9008.2	9170.9	9338.4	9481.3	9052.6	8589.4	8234.6	8081.8	8062.1
55°	9432.1	9530.5	9708.0	10013.5	10496.4	10693.6	9954.4	9126.5	8692.8	8456.3	8407.1
56°	9693.2	9599.6	9905.1	10323.9	10954.8	11211.0	10102.3	9234.9	8756.9	8490.8	8485.9
57.5°	9441.9	9545.4	9757.3	10417.6	11191.3	11526.4	10156.4	9185.7	8500.7	8229.6	8254.2
60°	7456.0	7554.5	7840.3	8579.5	9791.8	10053.0	8594.3	7574.2	6963.1	6573.8	6578.8
62.5°	4218.3	4292.2	4514.0	5199.0	5952.9	6204.2	5356.7	4676.6	4252.8	4036.0	3967.0
65°	1552.3	1522.7	1557.2	1907.1	2370.4	2582.2	2227.4	1882.5	1660.7	1581.8	1552.3
67.5°	581.5	537.1	502.7	537.1	675.2	714.5	655.4	547.0	512.5	527.3	537.1
70°	359.8	340.0	271.1	256.3	251.3	246.4	261.2	275.9	315.4	369.6	379.5
72.5°	251.3	236.6	192.2	182.3	172.5	167.5	192.2	211.9	246.4	285.9	290.7
75°	98.6	103.5	98.6	108.4	113.4	118.2	138.0	152.7	167.5	167.5	162.6
77.5°	19.7	19.7	29.6	39.4	49.3	64.1	93.6	108.4	113.4	108.4	93.6
80°	0.0	0.0	9.8	19.7	39.4	54.2	83.8	93.6	103.5	93.6	73.9
82.5°	0.0	0.0	9.8	24.6	39.4	49.3	78.9	98.6	113.4	103.5	78.9
85°	0.0	0.0	9.8	19.7	29.6	34.5	34.5	24.6	24.6	14.8	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)