

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: P647534

Luminaire Tested: **GALN-SA7D-835-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647534
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-835-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 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: 22007 lumens
Efficiency: N/A
Efficacy: 50.8 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

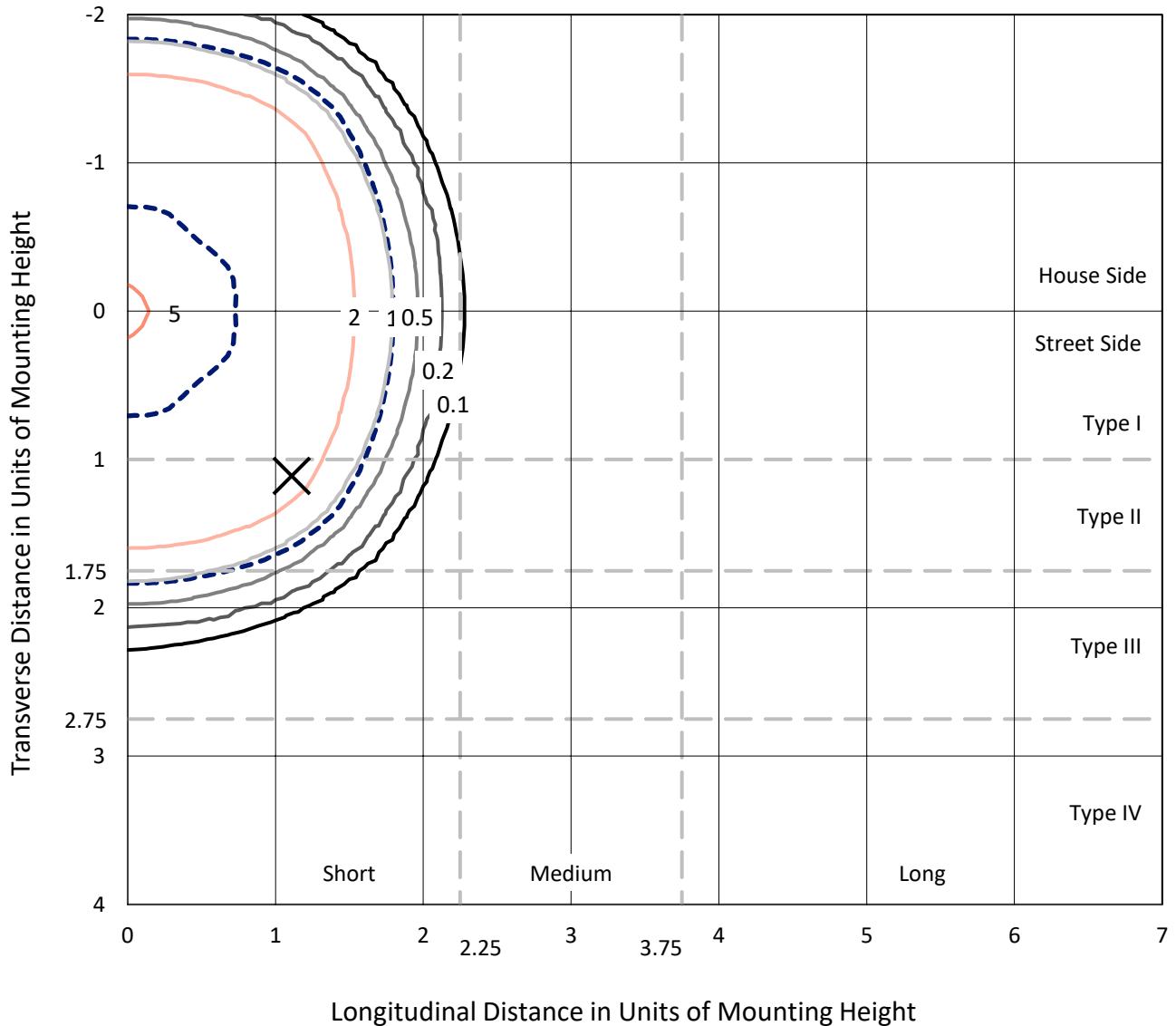
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

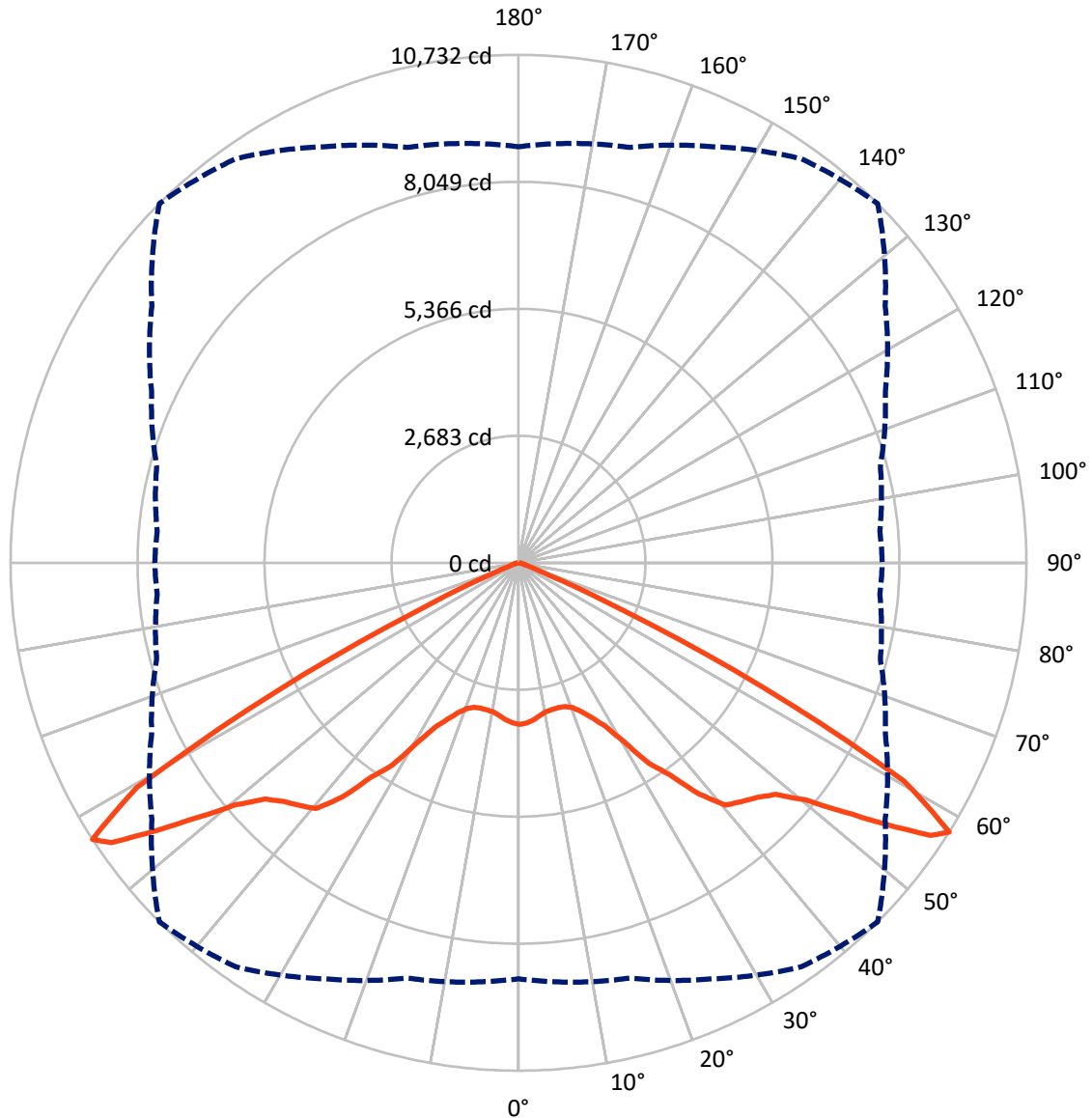
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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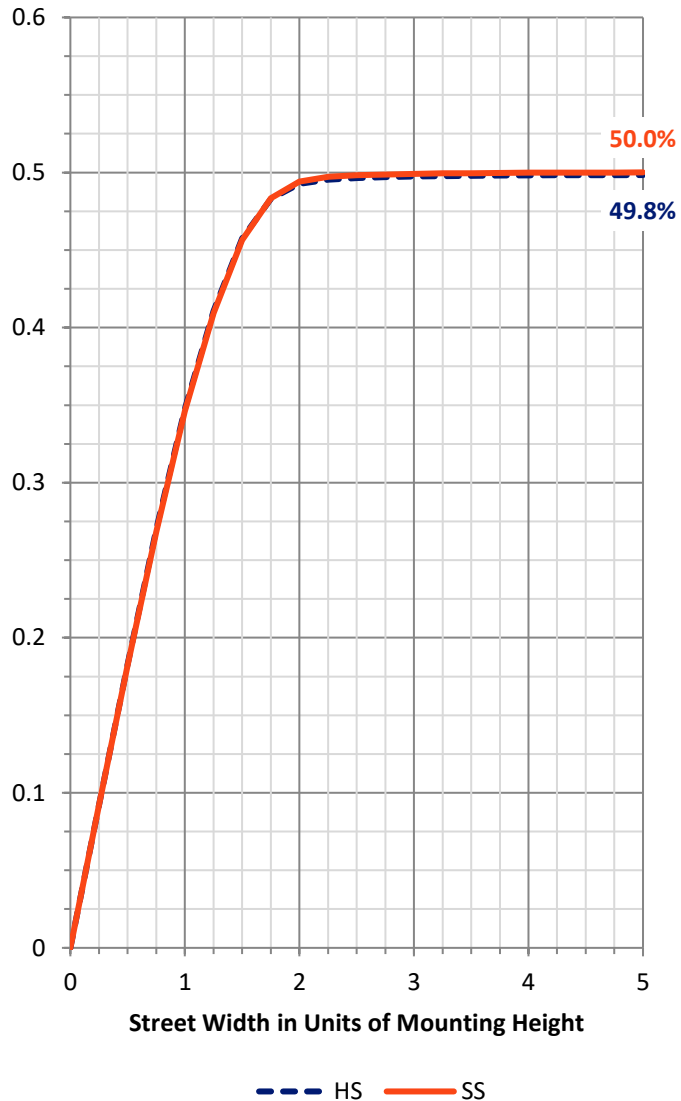
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11003.5	0.0	11003.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11003.5	0.0	11003.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22007.0	0.0	22007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.7	1.4
10°-20°	906.7	4.1
20°-30°	1673.6	7.6
30°-40°	3291.4	15.0
40°-50°	5360.8	24.4
50°-60°	7645.2	34.7
60°-70°	2647.0	12.0
70°-80°	142.0	0.6
80°-90°	26.7	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°	22007.0	100.0
0°-180°	22007.0	100.0

Coefficient of Utilization



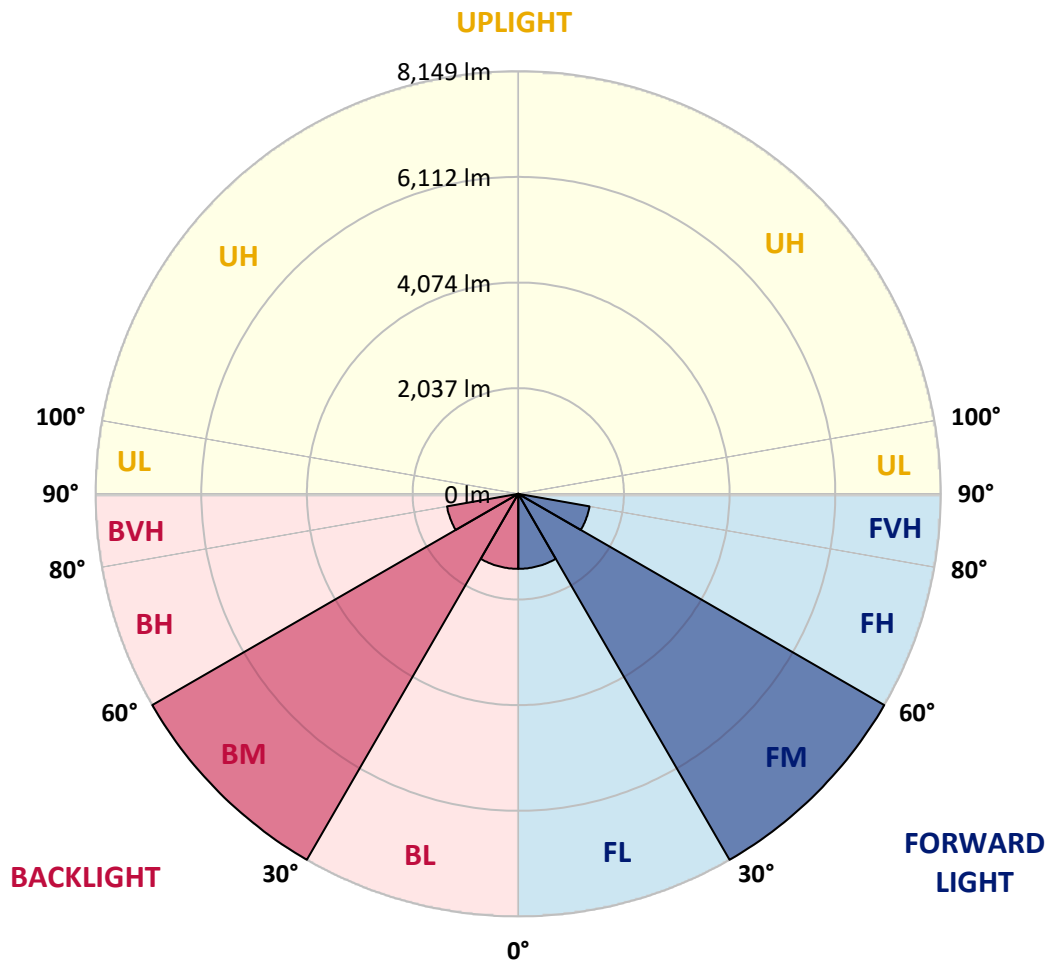
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1447.0	6.6			
FM (30°-60°)	8148.7	37.0			
FH (60°-80°)	1394.5	6.3			G1/1800
FVH (80°-90°)	13.3	0.1			G1/100
BL (0°-30°)	1447.0	6.6	B3/2500		
BM (30°-60°)	8148.7	37.0	B4/8500		
BH (60°-80°)	1394.5	6.3	B3/2500		G1/1800
BVH (80°-90°)	13.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5	3413.5
2.5°	3404.3	3422.7	3399.8	3390.5	3386.0	3386.0	3372.2	3372.2	3367.6	3372.2	3353.9
5°	3349.3	3367.6	3367.6	3363.1	3335.5	3331.0	3317.2	3308.0	3312.6	3294.2	3308.0
7.5°	3294.2	3308.0	3289.6	3285.1	3275.8	3257.5	3252.9	3211.6	3216.3	3216.3	3225.4
10°	3285.1	3280.5	3252.9	3230.0	3202.5	3197.9	3184.1	3174.9	3174.9	3170.4	3184.1
12.5°	3285.1	3262.1	3257.5	3207.1	3161.2	3179.5	3142.8	3119.9	3152.0	3161.2	3179.5
15°	3280.5	3303.4	3225.4	3202.5	3170.4	3174.9	3142.8	3119.9	3138.3	3147.4	3161.2
17.5°	3308.0	3294.2	3271.3	3225.4	3211.6	3193.3	3152.0	3133.6	3133.6	3156.6	3161.2
20°	3381.4	3344.7	3298.8	3275.8	3289.6	3266.7	3216.3	3147.4	3165.7	3184.1	3197.9
22.5°	3450.2	3422.7	3390.5	3376.8	3454.8	3418.1	3331.0	3252.9	3225.4	3257.5	3280.5
25°	3583.2	3583.2	3523.7	3542.0	3629.1	3633.7	3532.8	3395.2	3376.8	3390.5	3399.8
27.5°	3854.0	3867.7	3817.3	3835.6	3872.3	3904.4	3817.3	3702.6	3661.3	3656.7	3670.5
30°	4147.6	4175.1	4170.6	4248.6	4354.1	4372.4	4243.9	4055.9	3932.0	3909.0	3927.4
32.5°	4533.0	4546.8	4537.6	4629.3	4913.8	5046.8	4711.9	4445.8	4280.7	4321.9	4280.7
35°	5257.9	5244.1	5143.2	5161.5	5395.6	5491.9	5170.8	5001.0	4923.0	5005.6	4987.2
37.5°	5881.9	5831.4	5748.9	5868.1	6111.3	6198.5	5863.6	5565.3	5423.1	5560.7	5620.4
40°	6409.5	6281.1	6166.4	6285.6	6611.4	6730.7	6239.7	5996.6	5941.6	6042.5	6170.9
42.5°	6854.5	6772.0	6620.6	6629.7	6845.4	6900.4	6505.9	6363.7	6308.6	6469.1	6533.4
45°	7171.1	7093.1	6950.9	6941.8	7106.9	7070.2	6716.9	6620.6	6652.7	6758.2	6790.3
47.5°	7331.7	7373.0	7290.4	7313.4	7400.5	7313.4	7033.5	7033.5	6960.1	7024.3	6992.2
50°	7795.1	7666.7	7772.1	7772.1	7863.9	7873.1	7593.2	7492.3	7295.0	7184.9	7184.9
52.5°	8336.5	8345.7	8386.9	8538.4	8694.4	8827.5	8428.3	7997.0	7666.7	7524.4	7506.1
55°	8781.6	8873.3	9038.5	9322.9	9772.5	9956.1	9267.9	8497.1	8093.3	7873.1	7827.3
56°	9024.7	8937.6	9222.0	9612.0	10199.3	10437.9	9405.6	8598.0	8153.0	7905.2	7900.6
57.5°	8790.7	8887.1	9084.4	9699.2	10419.5	10731.5	9456.0	8552.2	7914.4	7662.0	7685.0
60°	6941.8	7033.5	7299.6	7987.8	9116.5	9359.7	8001.6	7051.9	6482.9	6120.5	6125.1
62.5°	3927.4	3996.2	4202.7	4840.4	5542.4	5776.3	4987.2	4354.1	3959.5	3757.6	3693.4
65°	1445.3	1417.7	1449.8	1775.6	2206.9	2404.1	2073.8	1752.7	1546.2	1472.7	1445.3
67.5°	541.4	500.1	468.0	500.1	628.6	665.2	610.2	509.3	477.2	490.9	500.1
70°	335.0	316.6	252.4	238.6	234.0	229.4	243.2	256.9	293.6	344.1	353.3
72.5°	234.0	220.3	178.9	169.8	160.6	156.0	178.9	197.3	229.4	266.1	270.7
75°	91.8	96.4	91.8	100.9	105.5	110.1	128.5	142.2	156.0	156.0	151.4
77.5°	18.3	18.3	27.6	36.7	45.9	59.7	87.1	100.9	105.5	100.9	87.1
80°	0.0	0.0	9.2	18.3	36.7	50.5	78.0	87.1	96.4	87.1	68.8
82.5°	0.0	0.0	9.2	22.9	36.7	45.9	73.4	91.8	105.5	96.4	73.4
85°	0.0	0.0	9.2	18.3	27.6	32.1	32.1	22.9	22.9	13.8	9.2
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)