

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: P651379

Luminaire Tested: **GALN-SA5D-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28758 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

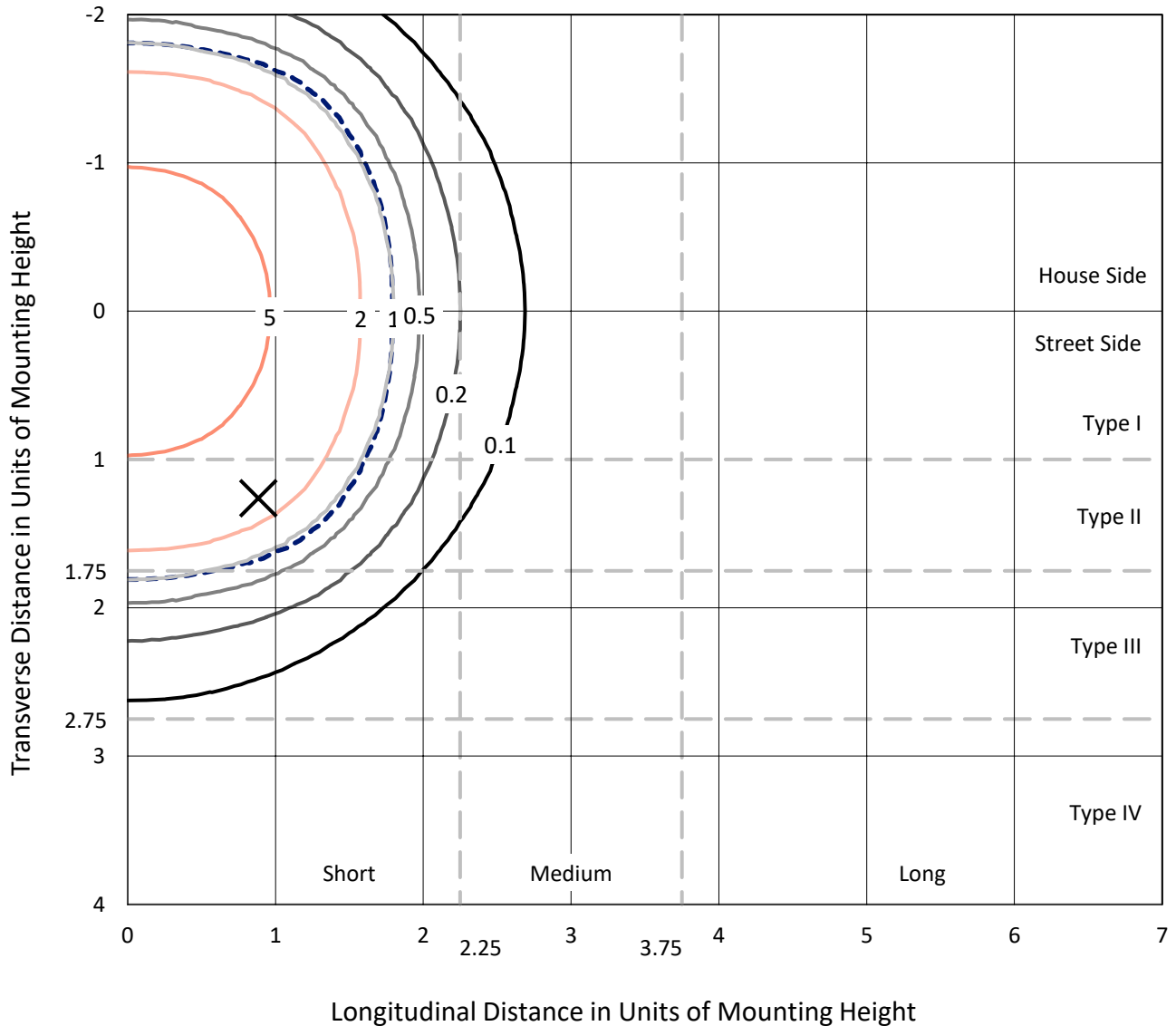
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

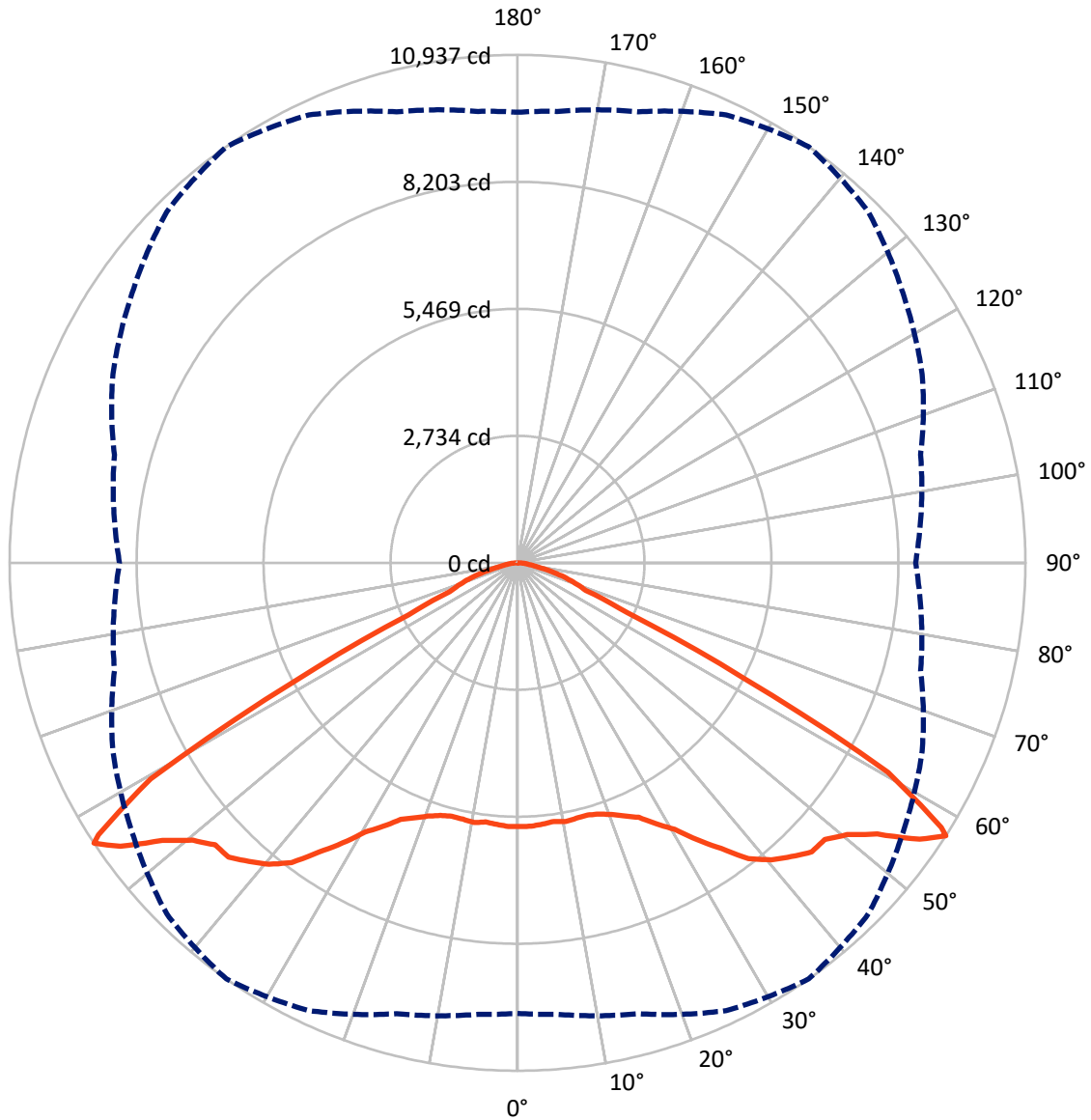
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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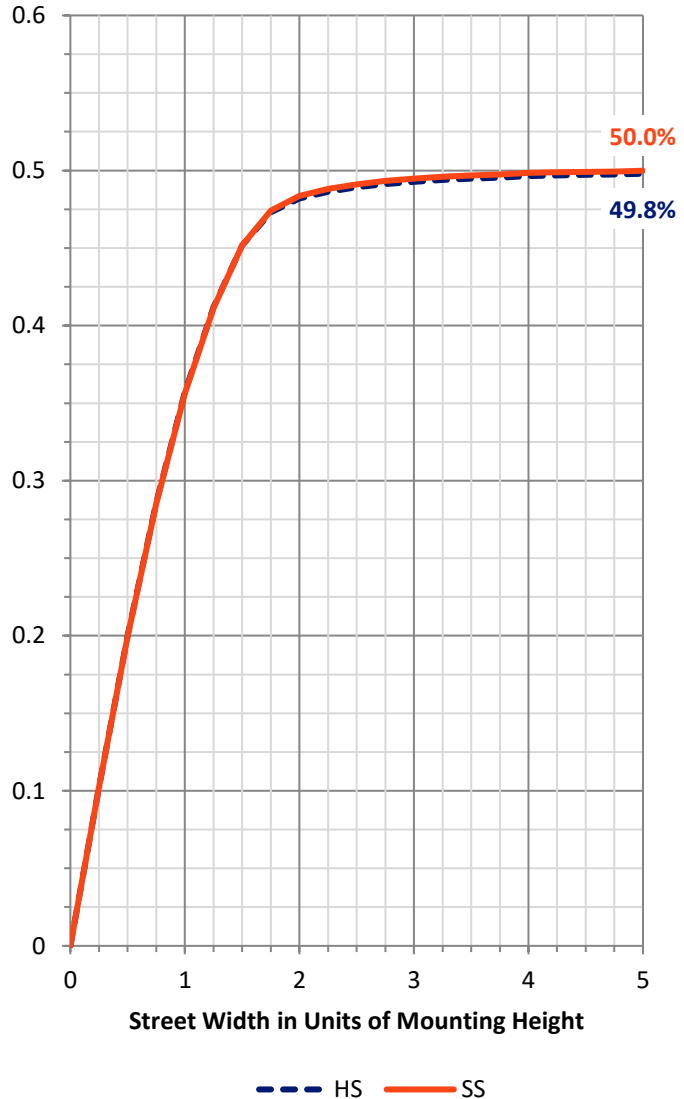
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14379.0	0.0	14379.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14379.0	0.0	14379.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28758.0	0.0	28758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.4	1.9
10°-20°	1594.7	5.5
20°-30°	2785.1	9.7
30°-40°	4563.5	15.9
40°-50°	6691.2	23.3
50°-60°	8428.1	29.3
60°-70°	3169.7	11.0
70°-80°	842.8	2.9
80°-90°	144.5	0.5
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°	28758.0	100.0
0°-180°	28758.0	100.0

Coefficient of Utilization



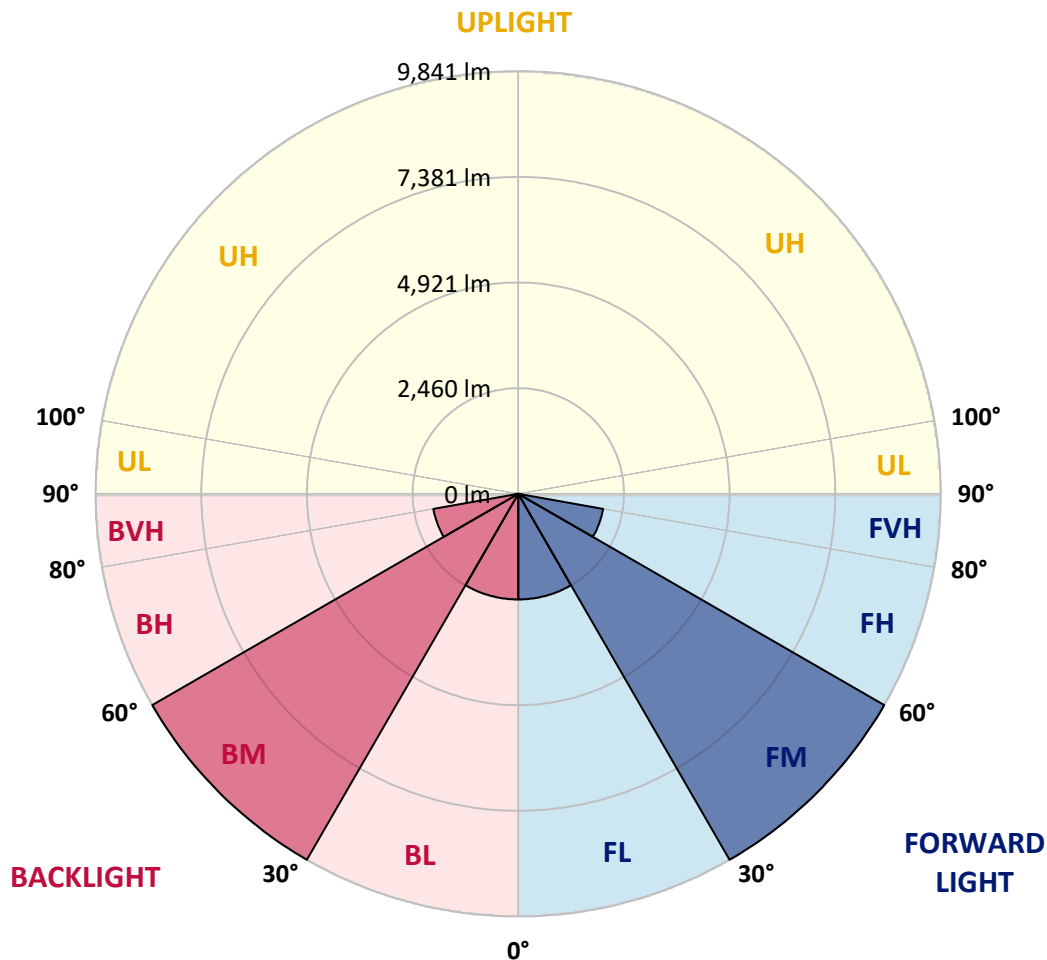
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2459.1	8.6			
FM (30°-60°)	9841.4	34.2			
FH (60°-80°)	2006.3	7.0			G2/5000
FVH (80°-90°)	72.3	0.3			G1/100
BL (0°-30°)	2459.1	8.6	B3/2500		
BM (30°-60°)	9841.4	34.2	B5		
BH (60°-80°)	2006.3	7.0	B3/2500		G2/5000
BVH (80°-90°)	72.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5679.5	5679.5	5679.5	5679.5	5679.5	5679.5	5679.5	5679.5	5679.5	5679.5	5679.5
2.5°	5651.2	5707.9	5683.1	5668.8	5679.5	5661.8	5633.4	5665.3	5658.2	5629.9	5619.2
5°	5637.0	5679.5	5651.2	5679.5	5651.2	5700.7	5686.6	5633.4	5697.2	5637.0	5658.2
7.5°	5626.4	5640.5	5647.6	5633.4	5622.8	5683.1	5651.2	5626.4	5590.9	5580.3	5598.0
10°	5601.6	5637.0	5583.8	5654.7	5668.8	5626.4	5626.4	5580.3	5551.9	5534.2	5594.5
12.5°	5665.3	5605.1	5598.0	5633.4	5644.0	5661.8	5612.2	5587.4	5534.2	5541.3	5530.7
15°	5590.9	5615.7	5619.2	5626.4	5637.0	5679.5	5633.4	5580.3	5559.0	5484.7	5491.7
17.5°	5619.2	5594.5	5619.2	5700.7	5686.6	5718.5	5668.8	5587.4	5537.7	5495.3	5551.9
20°	5668.8	5658.2	5668.8	5768.1	5785.7	5814.2	5771.6	5697.2	5601.6	5551.9	5580.3
22.5°	5722.0	5714.9	5722.0	5817.7	5920.4	5955.9	5913.3	5739.7	5690.1	5598.0	5566.1
25°	5817.7	5824.8	5899.2	6005.4	6072.8	6140.1	6062.2	5938.1	5778.7	5722.0	5654.7
27.5°	6030.2	6048.0	6090.5	6246.4	6363.3	6423.6	6313.7	6143.6	6044.4	5927.5	5909.8
30°	6292.4	6292.4	6366.9	6501.5	6660.9	6753.1	6618.4	6416.4	6296.0	6232.2	6193.2
32.5°	6639.7	6600.7	6629.0	6866.4	7114.4	7192.4	7011.7	6763.7	6572.3	6487.3	6459.0
35°	6937.2	6962.1	7025.9	7281.0	7557.3	7738.0	7454.5	7132.1	6937.2	6859.4	6845.2
37.5°	7323.4	7366.0	7397.9	7748.6	8081.7	8149.0	7876.2	7617.5	7380.1	7316.4	7281.0
40°	7869.1	7840.7	7851.4	8110.0	8411.2	8453.7	8184.4	8000.2	7805.3	7766.4	7766.4
42.5°	8319.1	8287.1	8322.6	8418.2	8648.6	8616.6	8467.9	8333.2	8251.7	8209.3	8251.7
45°	8591.9	8584.8	8648.6	8719.4	8882.4	8776.1	8659.2	8680.5	8602.5	8531.6	8528.1
47.5°	8889.5	8843.5	8921.4	9027.6	8903.7	8854.0	8847.0	8893.1	8868.3	8744.2	8705.3
50°	9034.8	9017.0	9141.1	9265.0	9197.8	9084.3	9109.1	9183.6	8864.6	8698.1	8602.5
52.5°	9424.5	9428.0	9665.4	9732.7	9704.4	9537.9	9591.0	9389.1	9013.5	8779.6	8790.3
55°	10037.4	10012.6	10278.4	10476.8	10508.6	10296.1	10041.0	9757.5	9286.3	9048.9	8978.1
57°	9700.9	9757.5	10051.6	10639.7	10937.4	10685.8	10129.5	9612.3	8985.2	8698.1	8570.6
57.5°	9250.9	9343.0	9853.2	10444.9	10756.6	10735.4	10019.7	9343.0	8783.2	8336.7	8347.4
60°	6777.9	6795.5	7256.1	8195.0	9169.4	9190.6	8319.1	7422.7	6799.1	6313.7	6381.0
62.5°	3574.9	3656.4	3840.7	4595.3	5438.6	5644.0	5116.1	4655.5	4117.0	3748.5	3784.0
65°	1892.0	1881.3	1970.0	2182.5	2597.0	2703.3	2632.5	2267.5	2079.8	2019.5	2023.1
67.5°	1537.7	1555.4	1544.7	1555.4	1583.8	1629.8	1619.2	1633.3	1644.0	1661.6	1658.1
70°	1303.8	1303.8	1311.0	1314.5	1314.5	1335.8	1360.5	1406.6	1410.1	1427.8	1434.9
72.5°	1027.4	1020.4	1031.1	1055.8	1059.4	1077.1	1112.5	1140.9	1151.5	1151.5	1130.2
75°	697.9	705.1	719.2	740.5	761.8	793.7	822.0	839.7	846.8	836.1	825.5
77.5°	393.3	400.4	411.0	442.9	467.7	496.0	527.9	545.6	563.3	566.9	545.6
80°	233.9	233.9	251.5	276.4	304.7	333.0	361.4	382.7	389.7	389.7	379.1
82.5°	141.7	145.2	159.5	184.3	209.1	226.7	251.5	269.3	283.4	279.9	272.8
85°	74.4	74.4	88.6	109.8	127.6	145.2	145.2	134.6	127.6	109.8	102.8
87.5°	24.8	21.3	28.3	28.3	24.8	28.3	28.3	31.9	31.9	31.9	31.9
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)