

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: P652375

Luminaire Tested: **GALN-SA5B-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20331.2 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

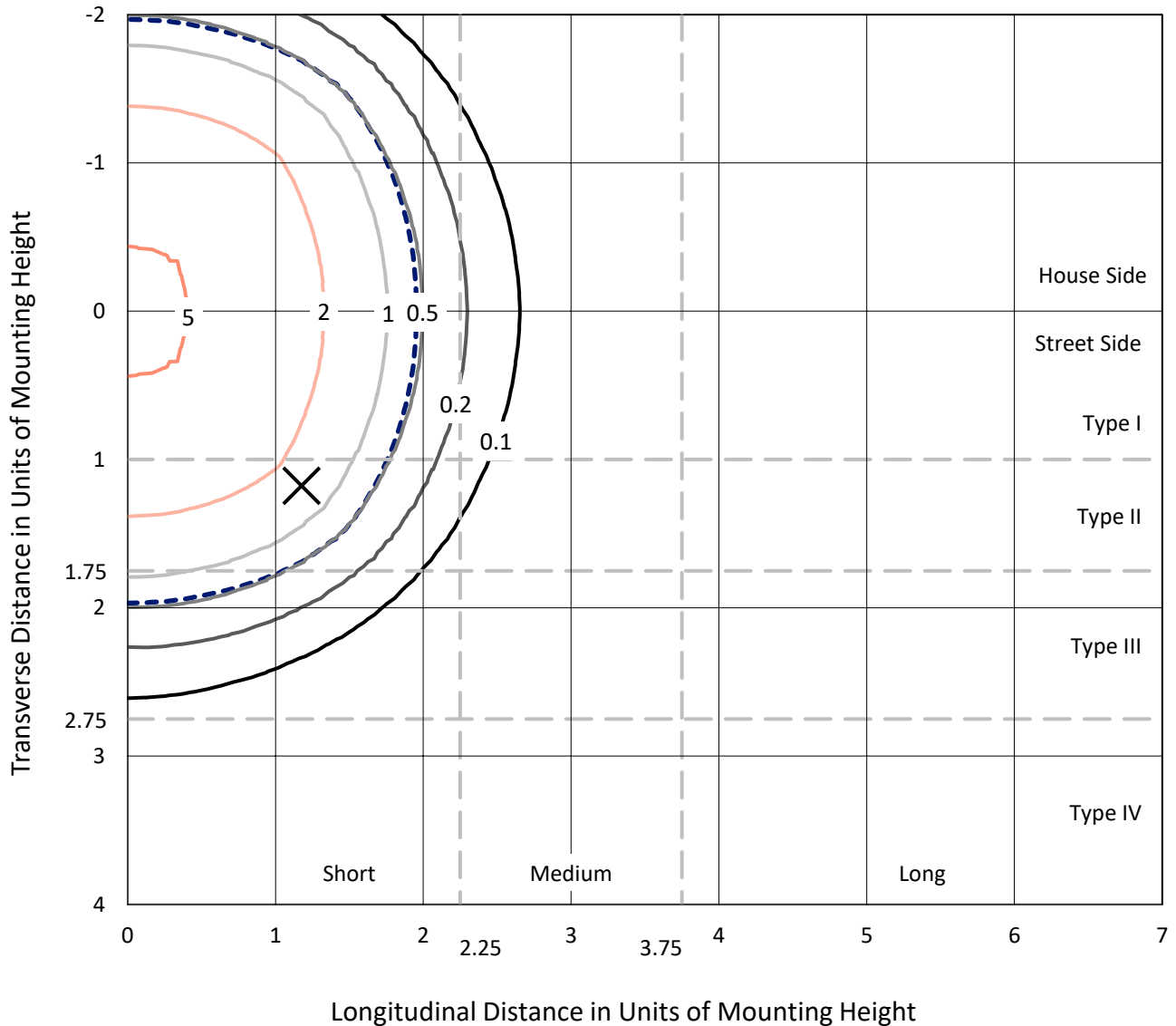
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

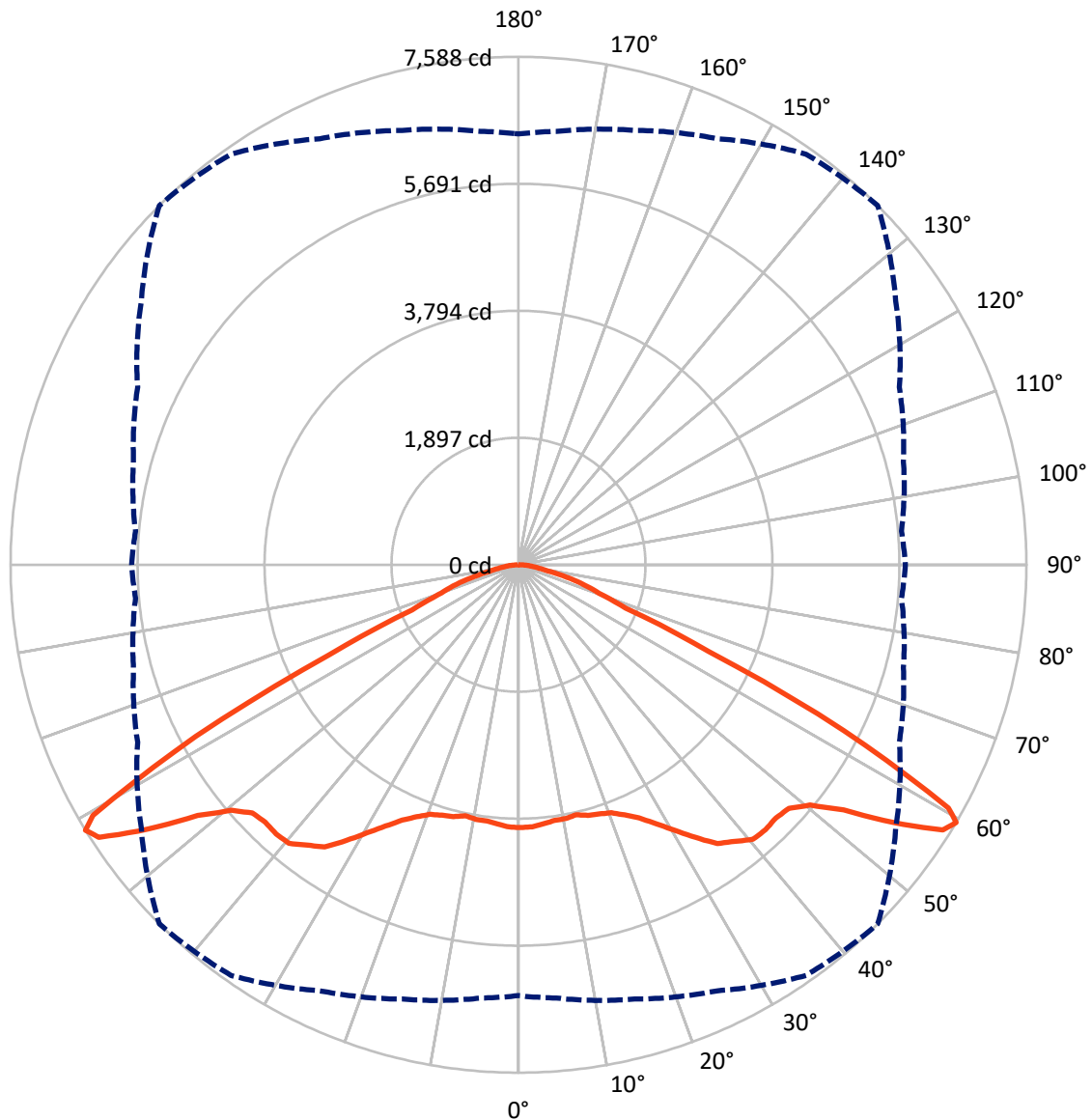
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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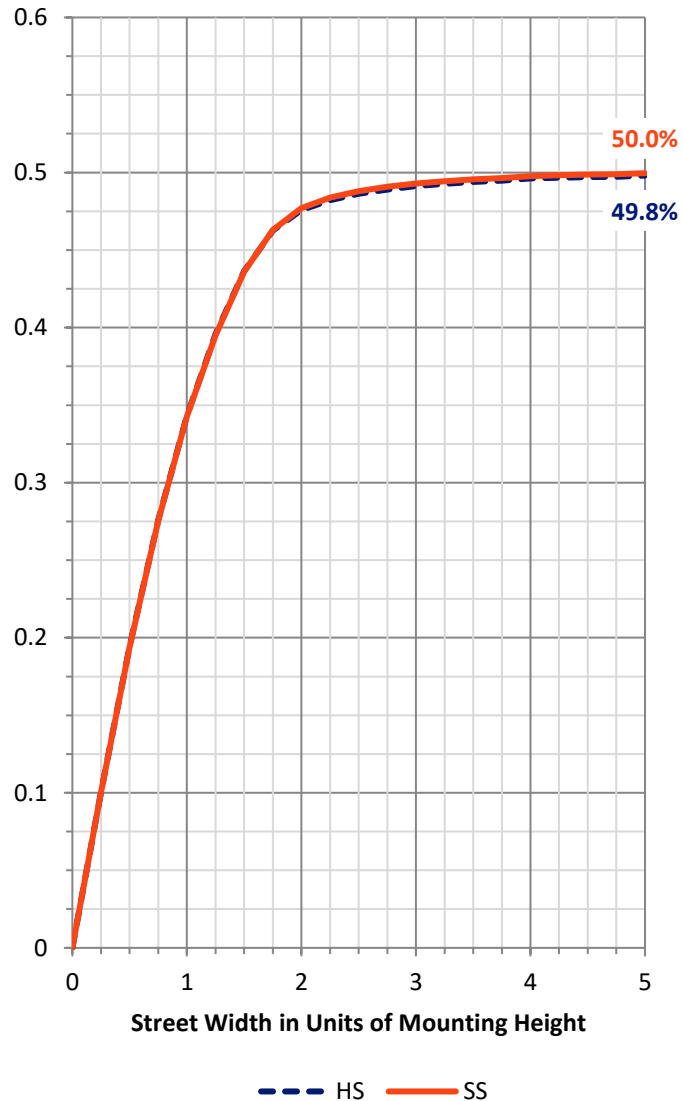
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10165.6	0.0	10165.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10165.6	0.0	10165.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	20331.2	0.0	20331.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.2	1.8
10°-20°	1100.9	5.4
20°-30°	1922.3	9.5
30°-40°	3070.1	15.1
40°-50°	4182.1	20.6
50°-60°	5655.4	27.8
60°-70°	3101.4	15.3
70°-80°	793.4	3.9
80°-90°	135.3	0.7
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°	20331.2	100.0
0°-180°	20331.2	100.0

Coefficient of Utilization



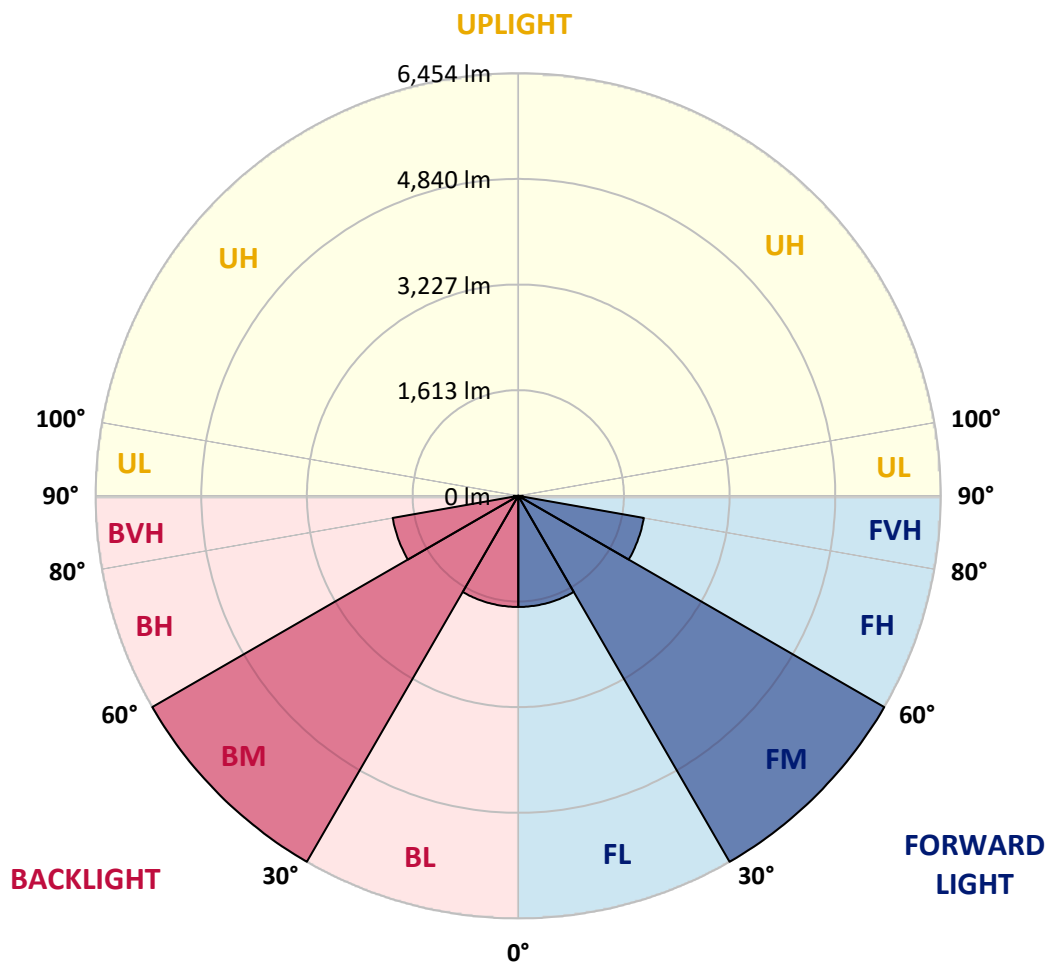
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1696.7	8.3			
FM (30°-60°)	6453.8	31.7			
FH (60°-80°)	1947.4	9.6			G2/5000
FVH (80°-90°)	67.7	0.3			G1/100
BL (0°-30°)	1696.7	8.3	B3/2500		
BM (30°-60°)	6453.8	31.7	B4/8500		
BH (60°-80°)	1947.4	9.6	B3/2500		G2/5000
BVH (80°-90°)	67.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0
2.5°	3903.6	3932.3	3911.4	3929.7	3927.0	3919.2	3906.2	3898.4	3887.9	3903.6	3877.5
5°	3887.9	3911.4	3934.8	3903.6	3903.6	3887.9	3880.1	3864.5	3864.5	3861.9	3859.3
7.5°	3914.0	3890.6	3880.1	3885.3	3890.6	3856.7	3880.1	3848.8	3822.8	3841.0	3861.9
10°	3890.6	3901.0	3861.9	3880.1	3851.4	3856.7	3841.0	3861.9	3833.2	3833.2	3833.2
12.5°	3914.0	3885.3	3898.4	3885.3	3877.5	3833.2	3854.1	3830.6	3828.0	3854.1	3830.6
15°	3960.9	3914.0	3903.6	3877.5	3885.3	3885.3	3864.5	3867.1	3838.4	3854.1	3859.3
17.5°	3945.2	3919.2	3911.4	3880.1	3906.2	3914.0	3874.9	3848.8	3867.1	3864.5	3861.9
20°	3958.3	3968.7	3960.9	3966.1	3976.5	3955.6	3919.2	3882.7	3859.3	3893.2	3890.6
22.5°	4041.7	4031.2	4026.0	4020.8	4039.1	4059.9	4010.4	3953.0	3953.0	3976.5	3986.9
25°	4109.4	4106.9	4104.2	4127.6	4190.2	4190.2	4127.6	4054.7	4036.5	4052.1	4039.1
27.5°	4208.4	4237.1	4226.7	4268.4	4359.6	4380.4	4297.0	4211.1	4161.5	4143.3	4166.7
30°	4435.2	4401.3	4409.1	4453.4	4534.2	4602.0	4474.2	4383.0	4315.3	4312.6	4323.1
32.5°	4586.3	4612.4	4635.8	4677.5	4805.2	4857.3	4703.5	4555.0	4513.3	4489.8	4497.7
35°	4888.6	4865.1	4859.9	4901.6	5029.3	5115.3	4922.5	4792.2	4737.4	4789.6	4789.6
37.5°	5175.2	5110.1	5060.5	5115.3	5232.5	5243.0	5078.8	5008.4	4979.8	5039.7	5037.1
40°	5310.7	5305.5	5190.8	5222.1	5378.4	5394.1	5240.4	5157.0	5151.8	5229.9	5308.1
42.5°	5451.4	5401.9	5287.3	5308.1	5404.5	5409.7	5263.8	5240.4	5297.7	5373.2	5378.4
45°	5474.9	5433.2	5360.2	5308.1	5378.4	5394.1	5308.1	5323.8	5329.0	5420.2	5420.2
47.5°	5521.8	5516.5	5474.9	5435.8	5448.8	5435.8	5381.1	5404.5	5482.7	5527.0	5506.2
50°	5652.1	5597.4	5639.1	5605.2	5607.8	5644.3	5594.8	5618.2	5602.6	5563.5	5537.4
52.5°	5938.7	5912.7	5949.1	5972.6	5998.7	6082.0	6024.8	5899.6	5782.4	5678.2	5675.6
55°	6358.3	6376.5	6446.9	6566.7	6668.4	6801.3	6525.1	6225.3	6037.7	5873.5	5884.0
57.5°	6754.3	6741.3	6837.8	7111.3	7408.5	7476.2	6934.1	6506.8	6202.0	6097.7	6053.3
59°	6436.4	6499.0	6717.9	7022.8	7489.2	7588.3	6879.5	6277.5	5954.4	5743.3	5779.8
60°	5936.1	5959.6	6155.0	6579.7	7210.4	7379.8	6512.0	5923.1	5493.2	5370.6	5425.4
62.5°	4195.4	4177.2	4317.9	4664.4	5229.9	5459.3	4841.6	4427.4	4156.3	4020.8	4052.1
65°	2230.6	2314.0	2371.3	2587.6	2887.2	3129.6	2874.3	2694.5	2543.3	2431.2	2428.6
67.5°	1506.1	1495.7	1508.8	1558.3	1660.0	1727.7	1722.5	1631.3	1618.3	1597.4	1620.9
70°	1269.1	1263.9	1240.4	1240.4	1261.2	1276.9	1295.1	1305.6	1326.3	1352.4	1349.8
72.5°	1029.3	1016.3	1000.6	992.8	1018.9	1026.7	1050.2	1060.6	1078.8	1076.2	1099.7
75°	680.1	680.1	698.4	719.2	727.0	742.7	745.3	776.6	776.6	781.8	760.9
77.5°	380.5	370.0	383.1	403.9	422.2	450.8	479.5	502.9	516.0	510.7	510.7
80°	221.5	221.5	234.6	258.0	281.4	307.5	328.3	346.6	359.6	354.4	344.0
82.5°	138.1	138.1	151.1	174.6	192.8	208.5	237.2	260.6	276.2	271.0	258.0
85°	70.4	70.4	86.0	101.6	125.1	135.5	132.9	122.4	119.8	106.8	106.8
87.5°	18.2	18.2	26.1	28.7	23.5	26.1	26.1	26.1	26.1	26.1	28.7
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)