

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: P647370

Luminaire Tested: **GALN-SA4D-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647370
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-SA4D-835-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA 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: 20329 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

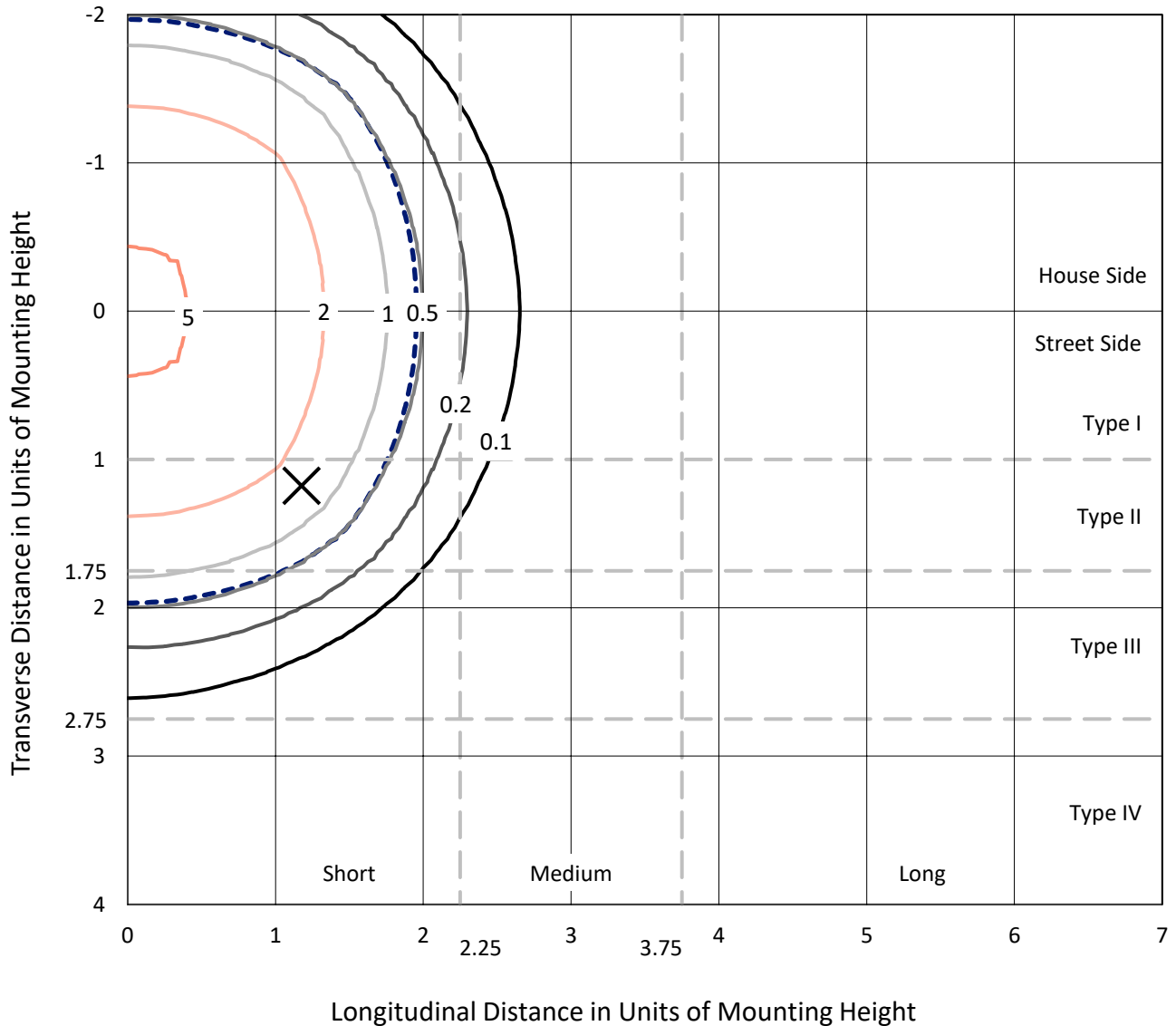
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

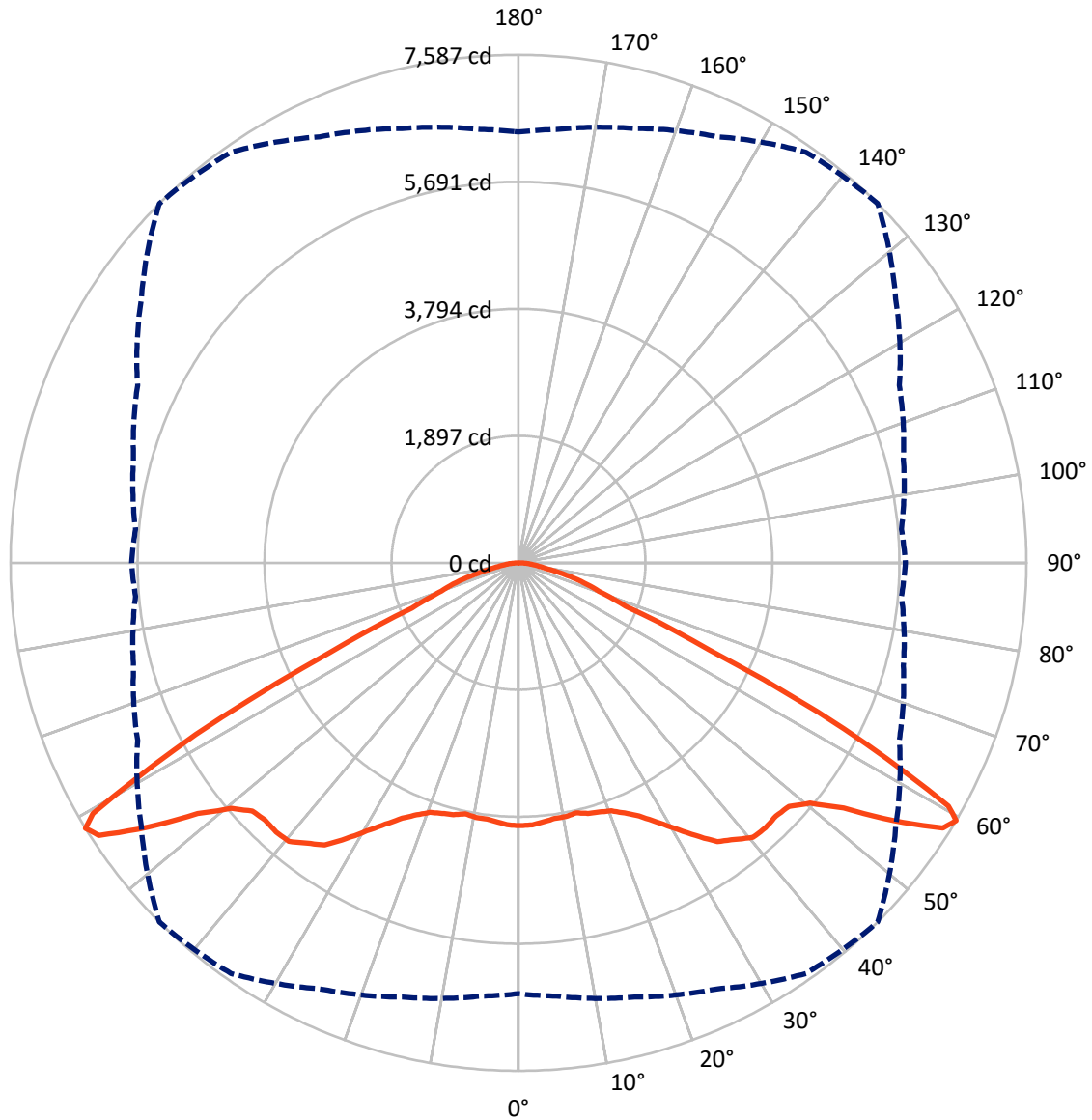
✕ Max cd
 - - - 1/2 Max cd



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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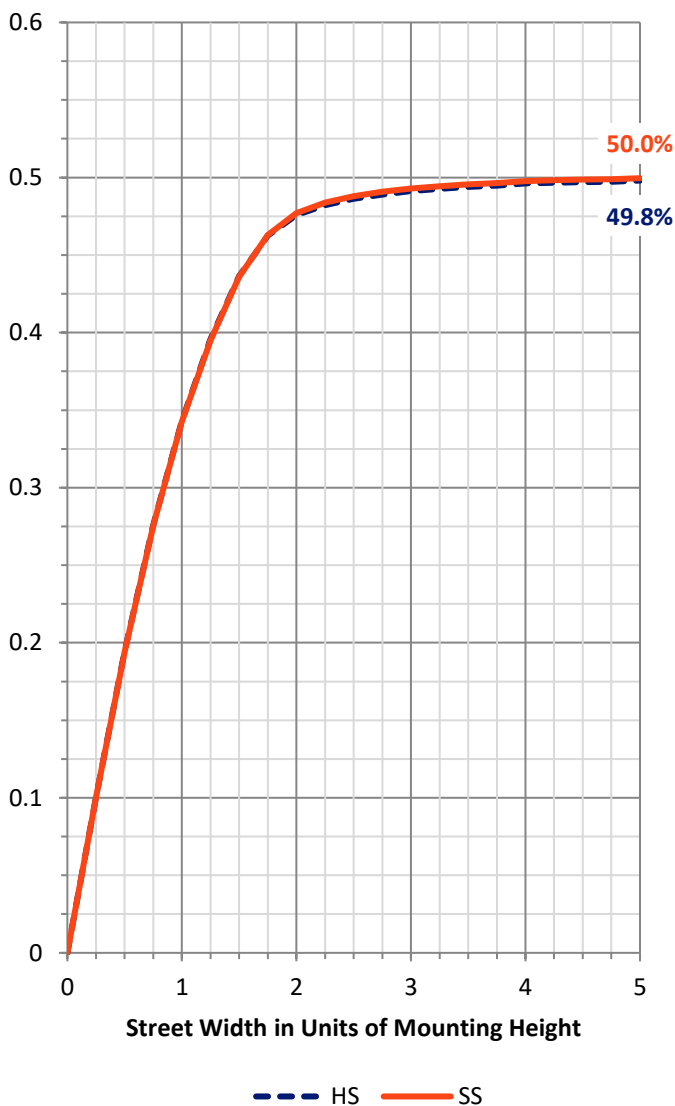
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10164.5	0.0	10164.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10164.5	0.0	10164.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20329.0	0.0	20329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.2	1.8
10°-20°	1100.8	5.4
20°-30°	1922.1	9.5
30°-40°	3069.8	15.1
40°-50°	4181.7	20.6
50°-60°	5654.8	27.8
60°-70°	3101.1	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°	20329.0	100.0
0°-180°	20329.0	100.0

Coefficient of Utilization

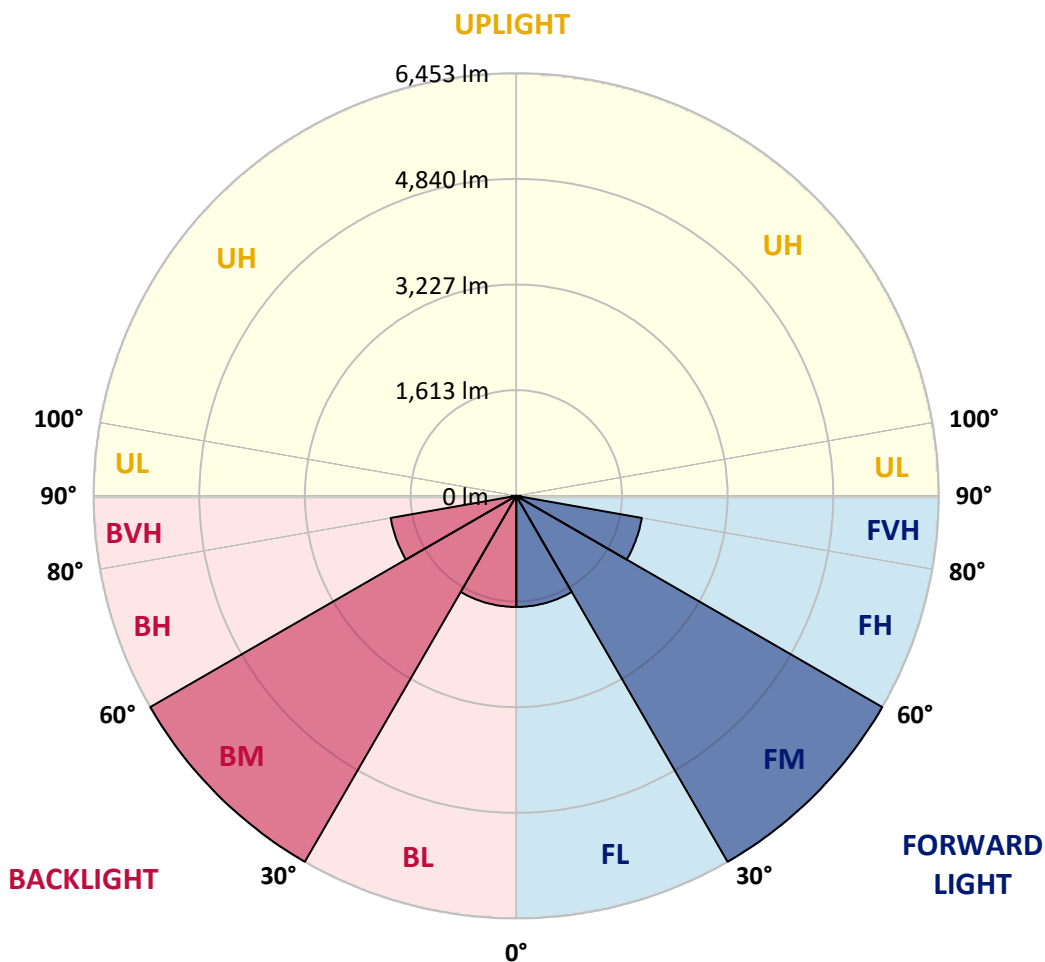


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1696.5	8.3			
FM (30°-60°)	6453.1	31.7			
FH (60°-80°)	1947.2	9.6			G2/5000
FVH (80°-90°)	67.7	0.3			G1/100
BL (0°-30°)	1696.5	8.3	B3/2500		
BM (30°-60°)	6453.1	31.7	B4/8500		
BH (60°-80°)	1947.2	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°	3926.6	3926.6	3926.6	3926.6	3926.6	3926.6	3926.6	3926.6	3926.6	3926.6	3926.6
2.5°	3903.2	3931.8	3910.9	3929.2	3926.6	3918.8	3905.8	3897.9	3887.5	3903.2	3877.1
5°	3887.5	3910.9	3934.4	3903.2	3903.2	3887.5	3879.7	3864.0	3864.0	3861.4	3858.9
7.5°	3913.6	3890.1	3879.7	3884.9	3890.1	3856.3	3879.7	3848.4	3822.4	3840.6	3861.4
10°	3890.1	3900.5	3861.4	3879.7	3851.0	3856.3	3840.6	3861.4	3832.8	3832.8	3832.8
12.5°	3913.6	3884.9	3897.9	3884.9	3877.1	3832.8	3853.6	3830.2	3827.6	3853.6	3830.2
15°	3960.5	3913.6	3903.2	3877.1	3884.9	3884.9	3864.0	3866.7	3838.0	3853.6	3858.9
17.5°	3944.8	3918.8	3910.9	3879.7	3905.8	3913.6	3874.5	3848.4	3866.7	3864.0	3861.4
20°	3957.8	3968.3	3960.5	3965.7	3976.1	3955.2	3918.8	3882.3	3858.9	3892.8	3890.1
22.5°	4041.2	4030.8	4025.6	4020.4	4038.6	4059.5	4010.0	3952.7	3952.7	3976.1	3986.5
25°	4108.9	4106.4	4103.8	4127.2	4189.8	4189.8	4127.2	4054.3	4036.1	4051.6	4038.6
27.5°	4208.0	4236.7	4226.2	4267.9	4359.1	4379.9	4296.6	4210.6	4161.1	4142.9	4166.3
30°	4434.7	4400.8	4408.6	4452.9	4533.7	4601.5	4473.7	4382.6	4314.8	4312.2	4322.6
32.5°	4585.8	4611.9	4635.3	4677.0	4804.6	4856.8	4703.1	4554.6	4512.8	4489.4	4497.2
35°	4888.0	4864.6	4859.4	4901.1	5028.7	5114.7	4921.9	4791.6	4736.9	4789.1	4789.1
37.5°	5174.7	5109.5	5060.0	5114.7	5232.0	5242.4	5078.2	5007.9	4979.3	5039.2	5036.6
40°	5310.1	5305.0	5190.3	5221.6	5377.9	5393.5	5239.8	5156.4	5151.2	5229.3	5307.6
42.5°	5450.9	5401.4	5286.7	5307.6	5404.0	5409.2	5263.2	5239.8	5297.2	5372.7	5377.9
45°	5474.3	5432.6	5359.6	5307.6	5377.9	5393.5	5307.6	5323.1	5328.4	5419.6	5419.6
47.5°	5521.2	5516.0	5474.3	5435.2	5448.3	5435.2	5380.5	5404.0	5482.1	5526.4	5505.6
50°	5651.5	5596.8	5638.5	5604.6	5607.2	5643.6	5594.1	5617.6	5602.0	5562.9	5536.8
52.5°	5938.1	5912.0	5948.5	5971.9	5998.0	6081.4	6024.1	5899.0	5781.8	5677.5	5674.9
55°	6357.6	6375.8	6446.2	6566.0	6667.6	6800.5	6524.3	6224.7	6037.1	5873.0	5883.4
57.5°	6753.6	6740.6	6837.0	7110.6	7407.6	7475.4	6933.4	6506.1	6201.3	6097.1	6052.7
59°	6435.8	6498.3	6717.2	7022.0	7488.4	7587.4	6878.7	6276.8	5953.7	5742.7	5779.2
60°	5935.5	5958.9	6154.4	6579.1	7209.6	7379.0	6511.3	5922.5	5492.5	5370.0	5424.8
62.5°	4195.0	4176.8	4317.5	4663.9	5229.3	5458.7	4841.1	4426.8	4155.9	4020.4	4051.6
65°	2230.4	2313.8	2371.1	2587.3	2887.0	3129.3	2873.9	2694.1	2543.0	2431.0	2428.4
67.5°	1506.0	1495.6	1508.6	1558.2	1659.7	1727.5	1722.3	1631.1	1618.1	1597.2	1620.7
70°	1268.9	1263.7	1240.3	1240.3	1261.1	1276.8	1295.0	1305.4	1326.2	1352.3	1349.7
72.5°	1029.2	1016.2	1000.5	992.7	1018.8	1026.6	1050.1	1060.5	1078.7	1076.1	1099.6
75°	680.0	680.0	698.3	719.1	726.9	742.6	745.2	776.4	776.4	781.7	760.8
77.5°	380.4	370.0	383.0	403.9	422.1	450.8	479.4	502.8	515.9	510.7	510.7
80°	221.5	221.5	234.5	257.9	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	208.4	237.1	260.6	276.2	271.0	257.9
85°	70.3	70.3	86.0	101.6	125.0	135.5	132.9	122.5	119.9	106.8	106.8
87.5°	18.2	18.2	26.1	28.7	23.4	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)