

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: P651269

Luminaire Tested: **GALN-SA3D-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651269
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-SA3D-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 17142.9 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

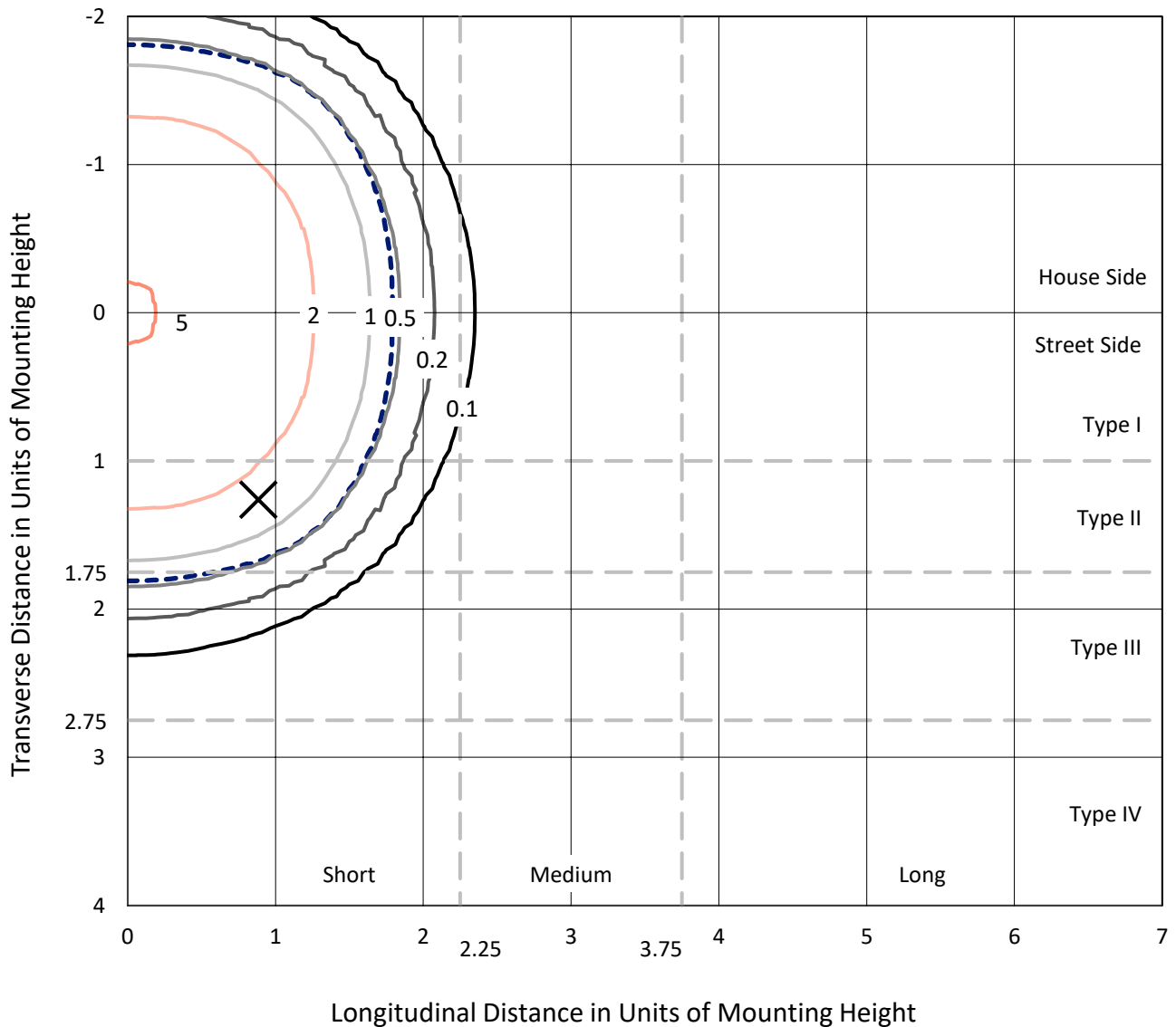
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

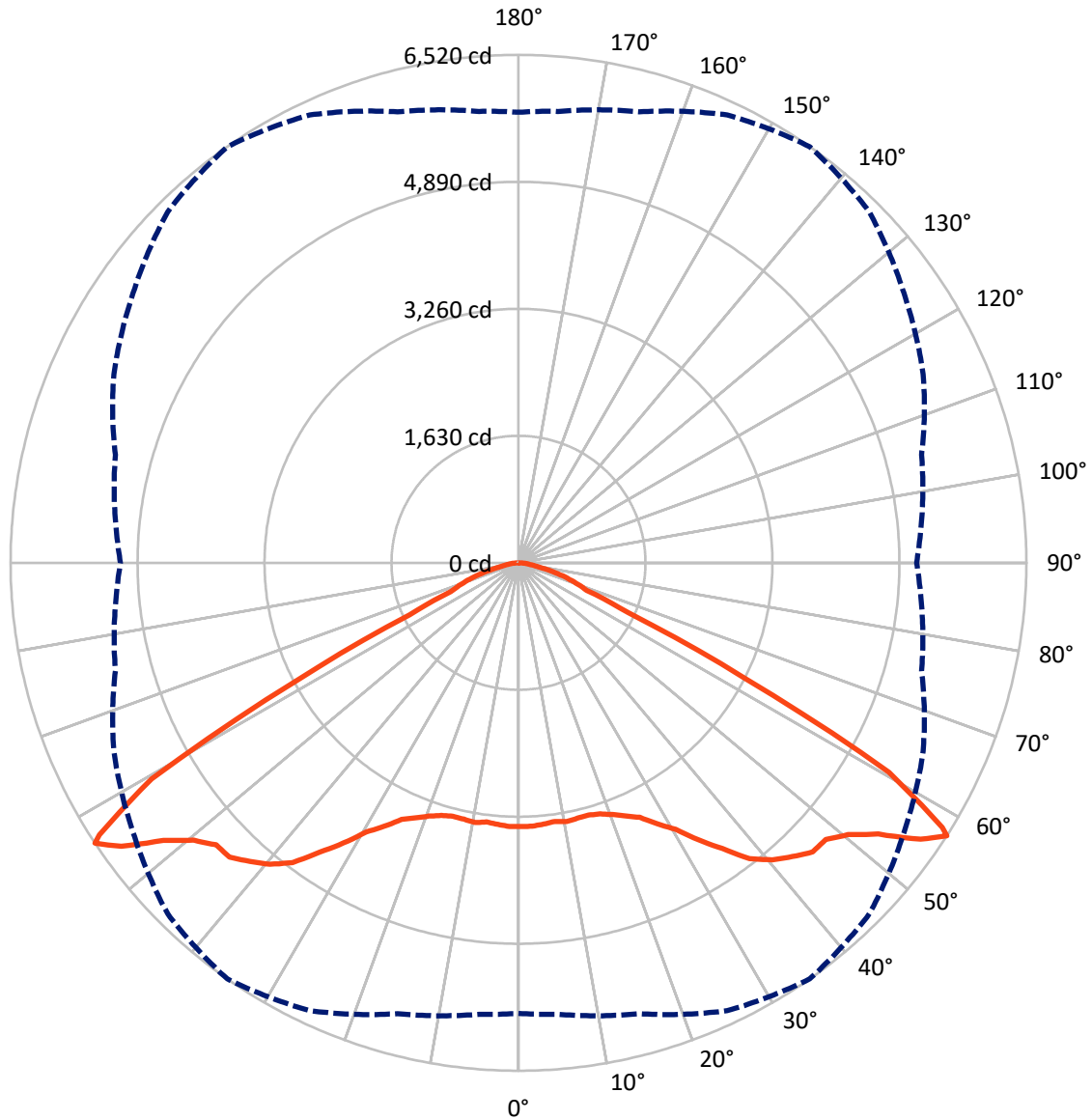
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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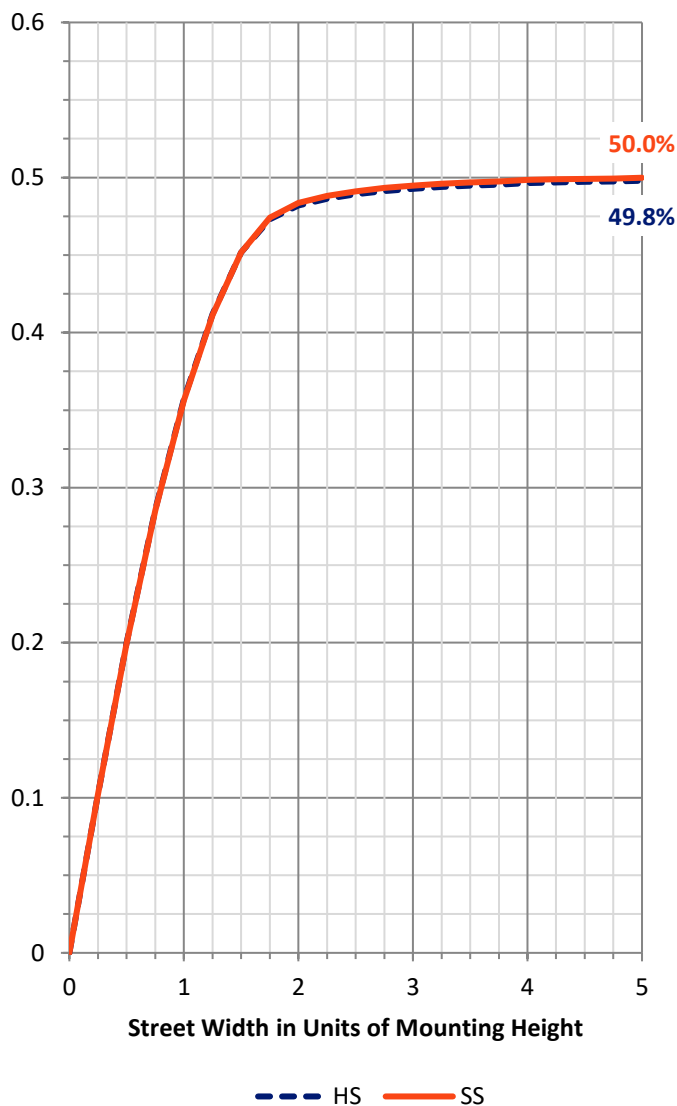
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8571.5	0.0	8571.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8571.5	0.0	8571.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17142.9	0.0	17142.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.0	1.9
10°-20°	950.6	5.5
20°-30°	1660.2	9.7
30°-40°	2720.3	15.9
40°-50°	3988.7	23.3
50°-60°	5024.1	29.3
60°-70°	1889.5	11.0
70°-80°	502.4	2.9
80°-90°	86.1	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°	17142.9	100.0
0°-180°	17142.9	100.0

Coefficient of Utilization

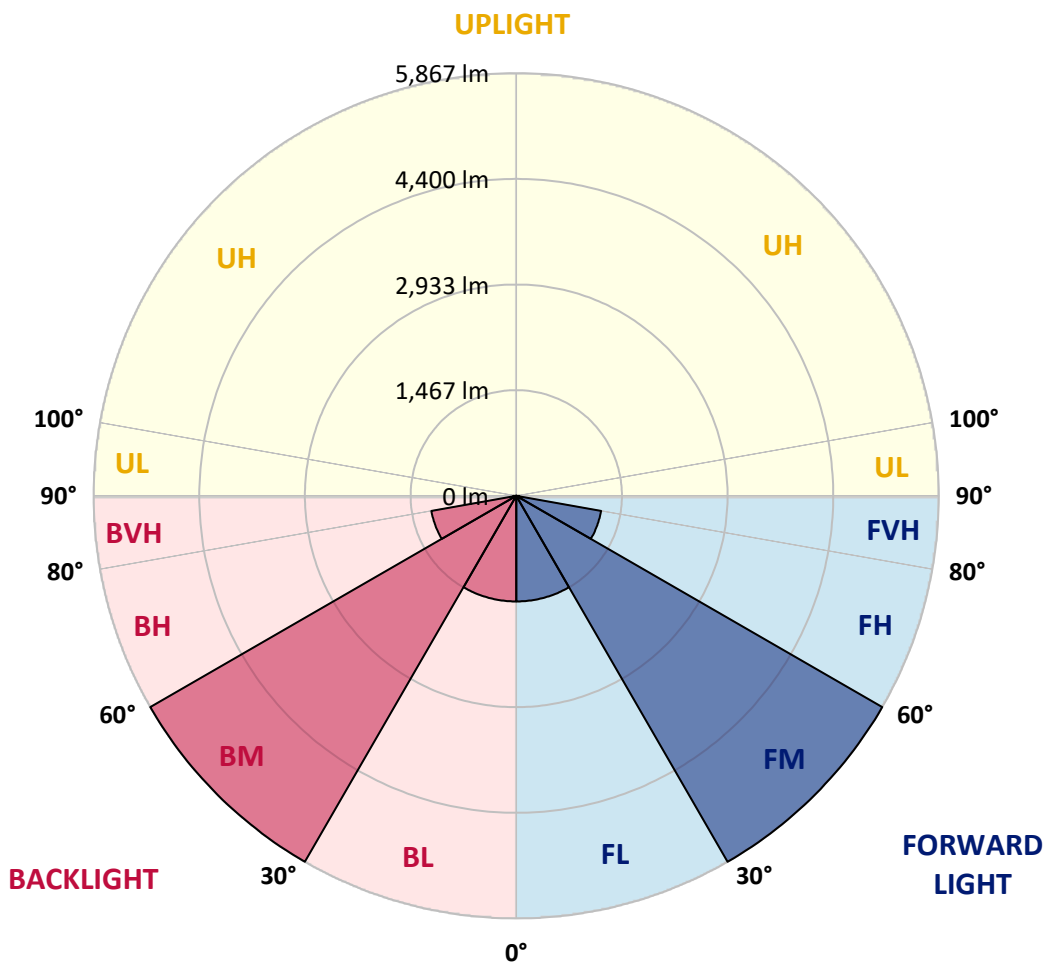


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1465.9	8.6			
FM (30°-60°)	5866.5	34.2			
FH (60°-80°)	1196.0	7.0			G1/1800
FVH (80°-90°)	43.1	0.3			G1/100
BL (0°-30°)	1465.9	8.6	B3/2500		
BM (30°-60°)	5866.5	34.2	B4/8500		
BH (60°-80°)	1196.0	7.0	B3/2500		G1/1800
BVH (80°-90°)	43.1	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3385.6	3385.6	3385.6	3385.6	3385.6	3385.6	3385.6	3385.6	3385.6	3385.6	3385.6
2.5°	3368.7	3402.5	3387.7	3379.3	3385.6	3375.0	3358.1	3377.1	3372.9	3356.0	3349.7
5°	3360.3	3385.6	3368.7	3385.6	3368.7	3398.3	3389.8	3358.1	3396.1	3360.3	3372.9
7.5°	3353.9	3362.4	3366.6	3358.1	3351.8	3387.7	3368.7	3353.9	3332.8	3326.5	3337.0
10°	3339.1	3360.3	3328.6	3370.8	3379.3	3353.9	3353.9	3326.5	3309.6	3299.0	3334.9
12.5°	3377.1	3341.3	3337.0	3358.1	3364.5	3375.0	3345.5	3330.7	3299.0	3303.2	3296.9
15°	3332.8	3347.6	3349.7	3353.9	3360.3	3385.6	3358.1	3326.5	3313.8	3269.5	3273.7
17.5°	3349.7	3334.9	3349.7	3398.3	3389.8	3408.8	3379.3	3330.7	3301.1	3275.8	3309.6
20°	3379.3	3372.9	3379.3	3438.4	3448.9	3465.8	3440.5	3396.1	3339.1	3309.6	3326.5
22.5°	3410.9	3406.7	3410.9	3467.9	3529.3	3550.4	3525.0	3421.5	3391.9	3337.0	3318.0
25°	3467.9	3472.2	3516.6	3579.9	3620.0	3660.2	3613.7	3539.8	3444.7	3410.9	3370.8
27.5°	3594.7	3605.3	3630.6	3723.5	3793.2	3829.2	3763.6	3662.3	3603.2	3533.5	3522.9
30°	3751.0	3751.0	3795.3	3875.6	3970.6	4025.5	3945.3	3825.0	3753.1	3715.1	3691.8
32.5°	3958.0	3934.7	3951.6	4093.1	4241.0	4287.4	4179.8	4031.9	3917.8	3867.2	3850.3
35°	4135.4	4150.2	4188.2	4340.2	4505.0	4612.7	4443.8	4251.5	4135.4	4088.9	4080.4
37.5°	4365.6	4390.9	4410.0	4619.0	4817.6	4857.7	4695.1	4540.9	4399.4	4361.3	4340.2
40°	4690.8	4673.9	4680.2	4834.5	5014.0	5039.4	4878.8	4769.0	4652.8	4629.6	4629.6
42.5°	4959.0	4940.0	4961.2	5018.2	5155.5	5136.5	5047.8	4967.5	4918.9	4893.6	4918.9
45°	5121.7	5117.5	5155.5	5197.7	5294.9	5231.5	5161.8	5174.5	5128.1	5085.8	5083.7
47.5°	5299.1	5271.6	5318.1	5381.5	5307.6	5278.0	5273.7	5301.2	5286.4	5212.5	5189.3
50°	5385.7	5375.2	5449.1	5523.0	5482.9	5415.3	5430.1	5474.4	5284.3	5185.1	5128.1
52.5°	5618.0	5620.2	5761.7	5801.8	5784.9	5685.6	5717.3	5596.9	5373.1	5233.6	5240.0
55°	5983.4	5968.7	6127.0	6245.4	6264.4	6137.6	5985.6	5816.6	5535.6	5394.2	5352.0
57°	5782.8	5816.6	5991.9	6342.5	6519.9	6369.9	6038.3	5730.0	5356.2	5185.1	5109.0
57.5°	5514.5	5569.4	5873.6	6226.3	6412.2	6399.5	5972.9	5569.4	5235.7	4969.6	4975.9
60°	4040.3	4050.9	4325.4	4885.1	5466.0	5478.6	4959.0	4424.8	4053.0	3763.6	3803.8
62.5°	2131.0	2179.6	2289.5	2739.3	3242.0	3364.5	3049.8	2775.2	2454.2	2234.5	2255.6
65°	1127.9	1121.5	1174.3	1301.0	1548.1	1611.5	1569.2	1351.7	1239.8	1203.9	1206.0
67.5°	916.6	927.2	920.8	927.2	944.1	971.5	965.2	973.6	980.0	990.5	988.4
70°	777.3	777.3	781.5	783.6	783.6	796.3	811.1	838.5	840.6	851.2	855.4
72.5°	612.5	608.3	614.6	629.4	631.5	642.0	663.2	680.1	686.4	686.4	673.7
75°	416.0	420.3	428.7	441.4	454.1	473.1	490.0	500.6	504.8	498.5	492.1
77.5°	234.5	238.7	245.0	264.0	278.8	295.7	314.7	325.2	335.8	337.9	325.2
80°	139.4	139.4	150.0	164.8	181.7	198.6	215.5	228.1	232.3	232.3	226.0
82.5°	84.5	86.6	95.0	109.8	124.6	135.1	150.0	160.5	169.0	166.9	162.6
85°	44.3	44.3	52.8	65.5	76.0	86.6	86.6	80.2	76.0	65.5	61.2
87.5°	14.8	12.7	16.9	16.9	14.8	16.9	16.9	19.0	19.0	19.0	19.0
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)