

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: P528666

Luminaire Tested: **GALN-SA3D-735-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-735-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19377 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

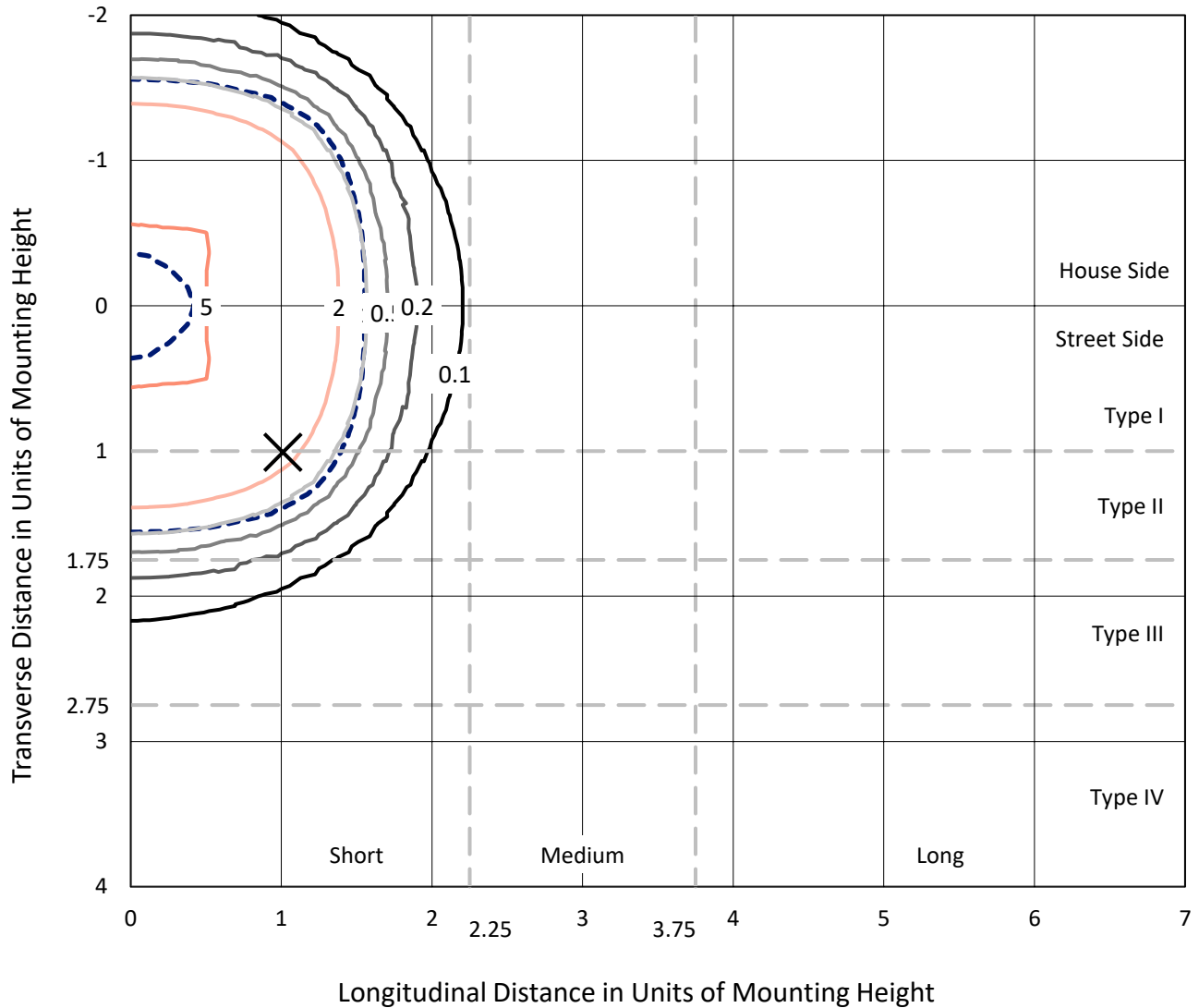
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

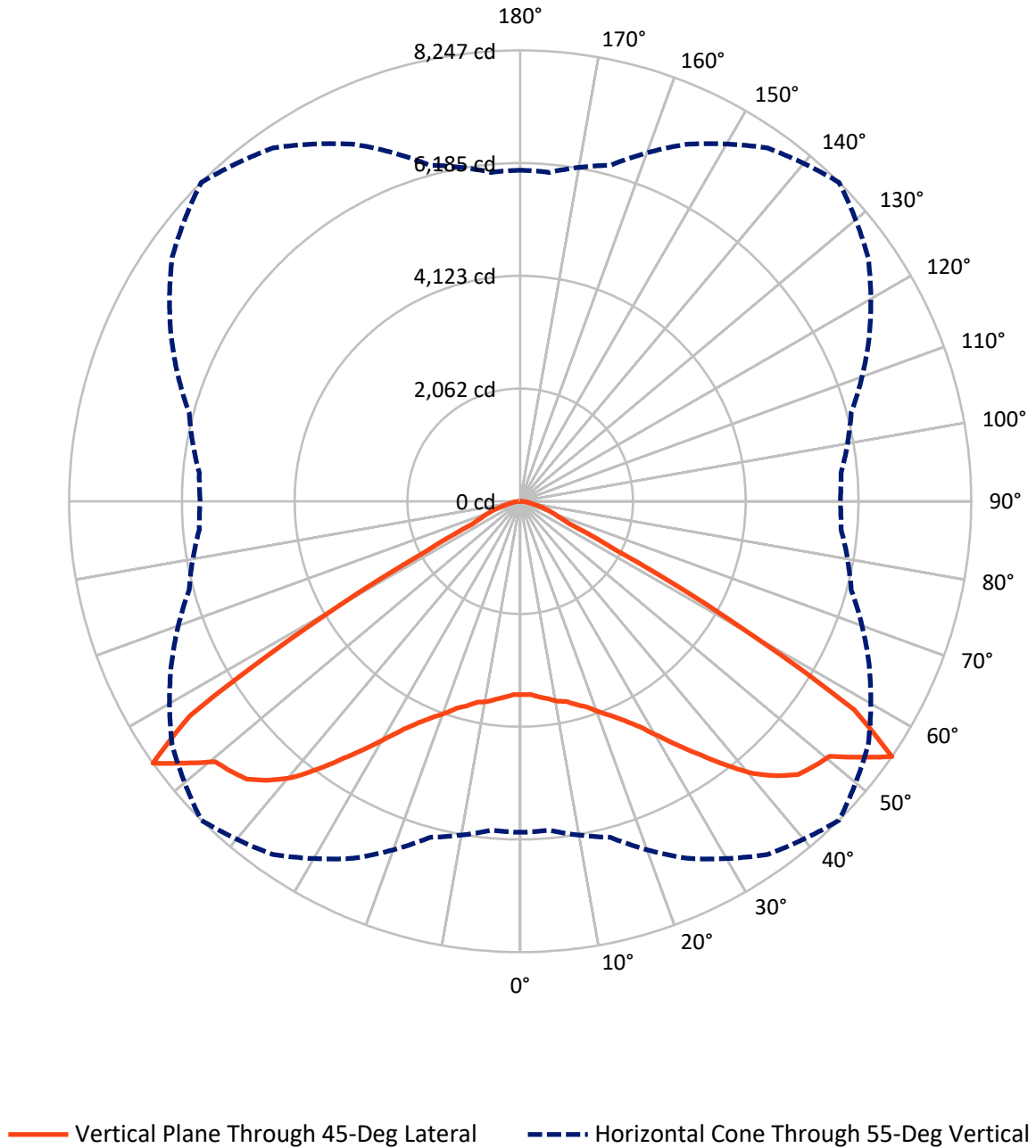
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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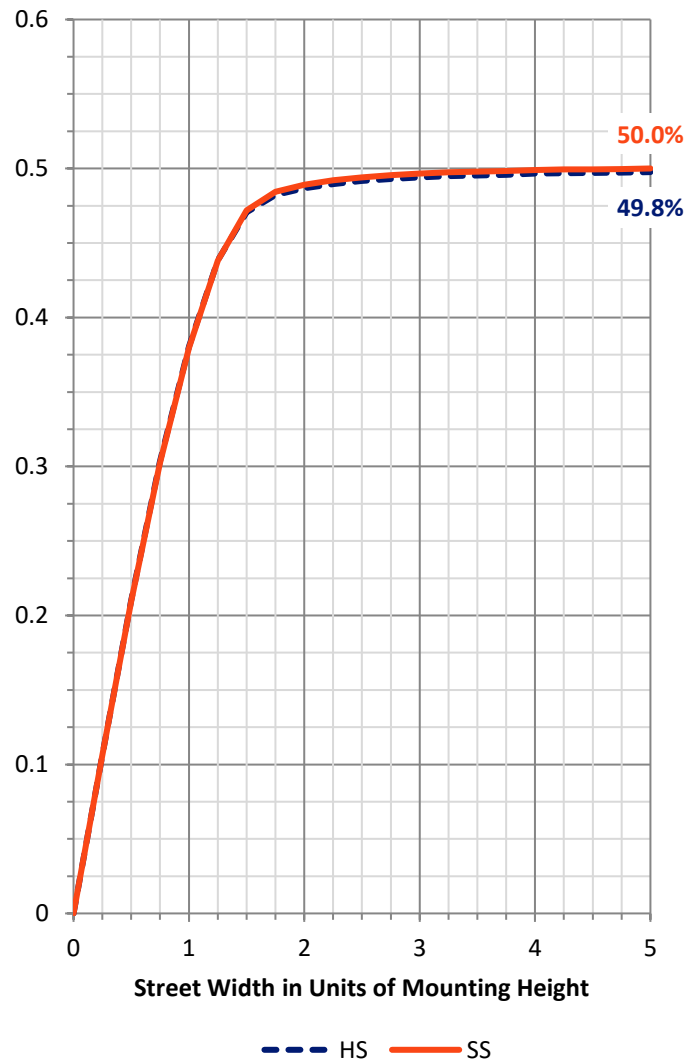
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9688.5	0.0	9688.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9688.5	0.0	9688.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19377.0	0.0	19377.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.6	1.8
10°-20°	1095.1	5.7
20°-30°	2042.0	10.5
30°-40°	3419.0	17.6
40°-50°	5320.3	27.5
50°-60°	5524.1	28.5
60°-70°	1171.5	6.0
70°-80°	385.8	2.0
80°-90°	73.5	0.4
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°	19377.0	100.0
0°-180°	19377.0	100.0

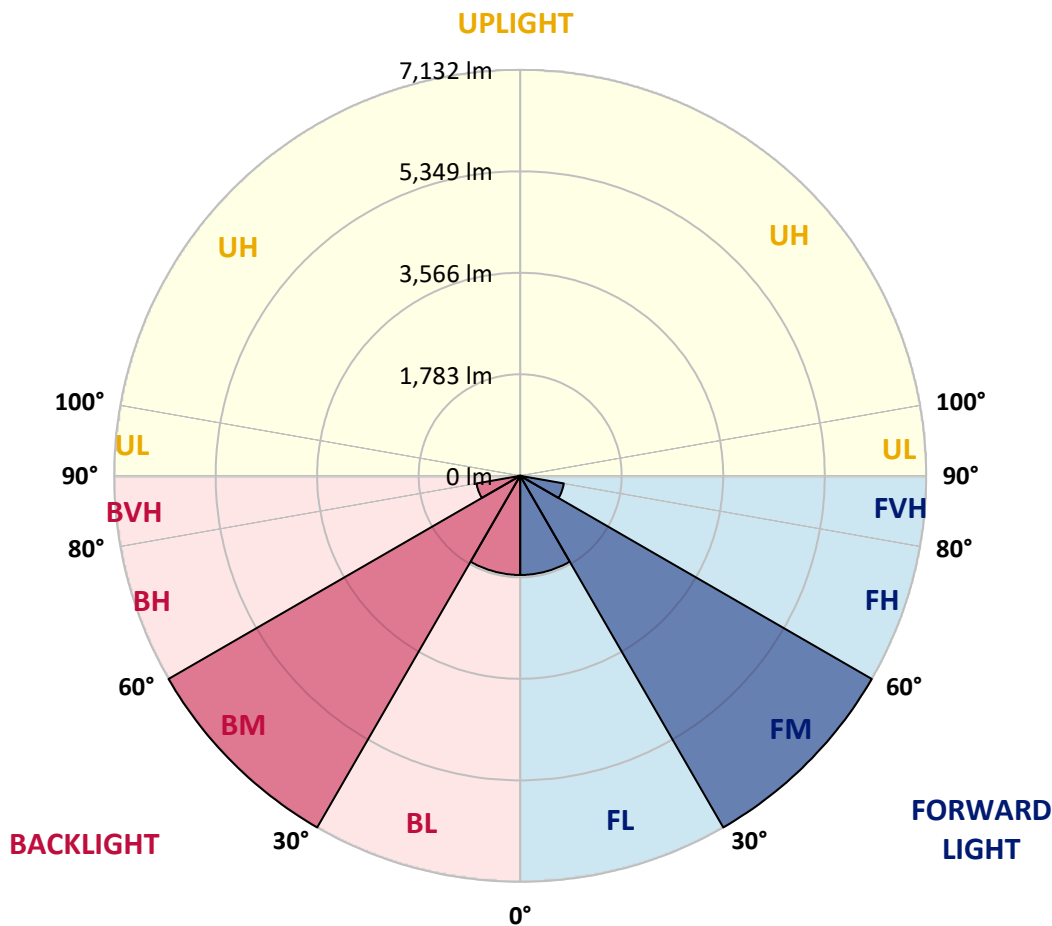


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1741.4	9.0			
FM (30°-60°)	7131.7	36.8			
FH (60°-80°)	778.6	4.0			G1/1800
FVH (80°-90°)	36.7	0.2			G1/100
BL (0°-30°)	1741.4	9.0	B3/2500		
BM (30°-60°)	7131.7	36.8	B4/8500		
BH (60°-80°)	778.6	4.0	B2/1000		G1/1800
BVH (80°-90°)	36.7	0.2			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°	3538.0	3538.0	3538.0	3538.0	3538.0	3538.0	3538.0	3538.0	3538.0	3538.0	3538.0
2.5°	3580.1	3563.7	3535.6	3556.7	3573.1	3538.0	3552.0	3559.0	3554.3	3535.6	3542.6
5°	3631.6	3622.2	3598.8	3615.2	3594.1	3594.1	3580.1	3561.4	3589.5	3584.8	3596.5
7.5°	3631.6	3619.9	3666.7	3636.3	3645.7	3645.7	3622.2	3603.5	3617.6	3596.5	3584.8
10°	3704.2	3720.6	3699.5	3706.5	3701.9	3718.2	3683.1	3671.4	3659.7	3652.7	3638.6
12.5°	3790.8	3779.1	3786.1	3781.5	3797.9	3755.7	3734.6	3708.9	3730.0	3699.5	3720.6
15°	3861.1	3854.0	3861.1	3879.8	3863.4	3861.1	3823.6	3797.9	3765.1	3772.1	3739.3
17.5°	3957.1	3950.0	3952.4	3968.8	3966.4	3954.7	3926.6	3877.5	3865.8	3847.0	3826.0
20°	4099.9	4088.2	4083.5	4090.5	4102.2	4111.6	4055.4	4036.7	3996.9	3966.4	3931.3
22.5°	4221.7	4217.0	4235.7	4205.3	4231.0	4259.1	4205.3	4195.9	4097.6	4081.2	4043.7
25°	4390.2	4383.2	4371.5	4416.0	4446.4	4444.1	4392.6	4341.1	4266.1	4247.4	4247.4
27.5°	4568.2	4528.4	4589.3	4601.0	4654.8	4671.2	4626.7	4551.8	4481.6	4441.8	4451.1
30°	4790.6	4753.2	4767.2	4851.5	4921.8	4982.6	4870.2	4760.2	4661.9	4591.6	4579.9
32.5°	5013.1	4975.6	5017.8	5099.7	5240.2	5331.5	5221.5	5029.5	4914.7	4811.7	4832.8
35°	5193.4	5221.5	5289.4	5413.5	5558.6	5706.1	5530.5	5383.0	5219.1	5104.4	5120.8
37.5°	5483.7	5570.3	5624.2	5767.0	5973.1	6125.3	5942.6	5750.6	5575.0	5425.2	5373.7
40°	5863.0	5921.6	5982.4	6151.0	6394.5	6546.7	6373.5	6122.9	5949.7	5795.1	5788.1
42.5°	6279.8	6336.0	6399.2	6605.3	6750.4	6865.2	6706.0	6572.5	6380.5	6258.7	6251.7
45°	6764.5	6724.7	6794.9	6930.7	7052.5	7127.4	7024.4	6958.8	6820.7	6708.3	6696.6
47.5°	7087.6	7052.5	7178.9	7300.7	7319.4	7237.5	7258.5	7319.4	7174.2	6989.3	7047.8
50°	7274.9	7274.9	7359.2	7471.6	7436.5	7331.1	7497.4	7502.0	7356.9	7193.0	7193.0
52.5°	6949.5	7022.0	7260.9	7628.5	7745.6	7776.0	7738.5	7579.3	7200.0	6865.2	6848.8
55°	6055.0	6038.6	6361.8	7204.7	7886.0	8246.6	7769.0	7036.1	6265.8	5888.8	5851.3
57.5°	3938.3	3957.1	4439.4	5298.7	6528.0	7200.0	6394.5	5364.3	4439.4	3919.6	3968.8
60°	1772.5	1835.7	2128.4	2770.0	3826.0	4373.9	3835.3	2910.4	2233.8	1938.7	1964.5
62.5°	1018.5	1030.2	1042.0	1236.3	1629.7	1927.0	1692.9	1306.5	1152.0	1100.5	1100.5
65°	859.3	852.3	854.6	871.0	913.2	974.0	948.3	913.2	917.9	913.2	906.1
67.5°	730.5	739.9	732.9	744.6	746.9	756.3	772.7	786.7	789.1	793.8	789.1
70°	599.4	601.8	606.4	615.8	618.1	625.2	648.6	660.3	667.3	667.3	676.7
72.5°	458.9	456.6	461.3	470.6	482.3	484.7	505.8	522.1	531.5	519.8	522.1
75°	302.0	304.4	311.4	318.4	334.8	351.2	358.2	374.6	377.0	381.7	370.0
77.5°	180.3	185.0	192.0	206.0	220.1	234.1	250.5	262.2	266.9	262.2	248.2
80°	117.1	117.1	126.4	138.1	154.5	166.2	175.6	185.0	192.0	185.0	180.3
82.5°	72.6	72.6	84.3	98.3	110.0	117.1	131.1	142.8	149.9	145.2	138.1
85°	37.5	39.8	49.2	60.9	70.2	74.9	72.6	65.6	58.5	56.2	51.5
87.5°	11.7	11.7	14.0	14.0	11.7	11.7	14.0	11.7	14.0	14.0	14.0
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)