

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: P528668

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528668
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-SA3D-735-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 18251 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

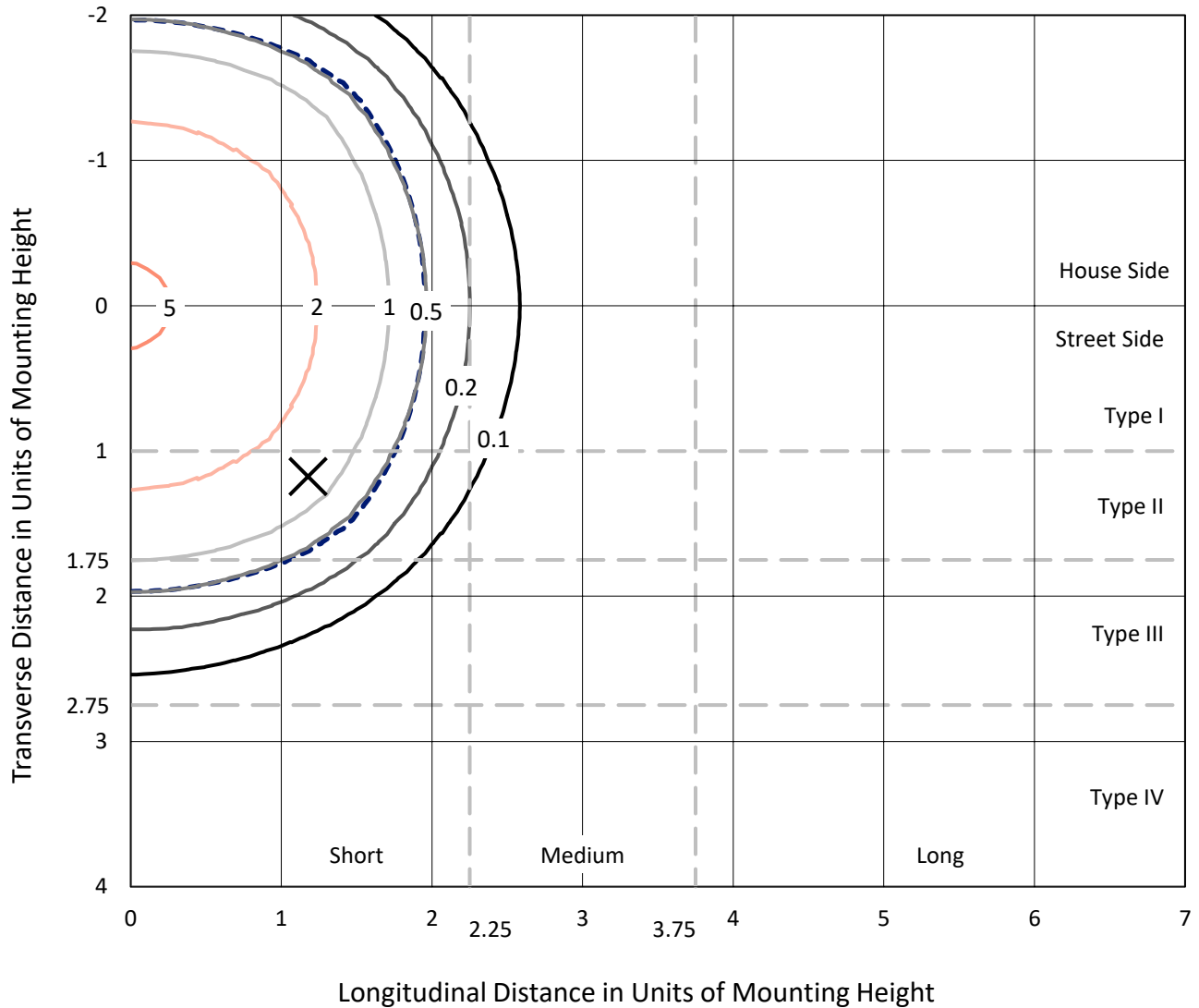
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

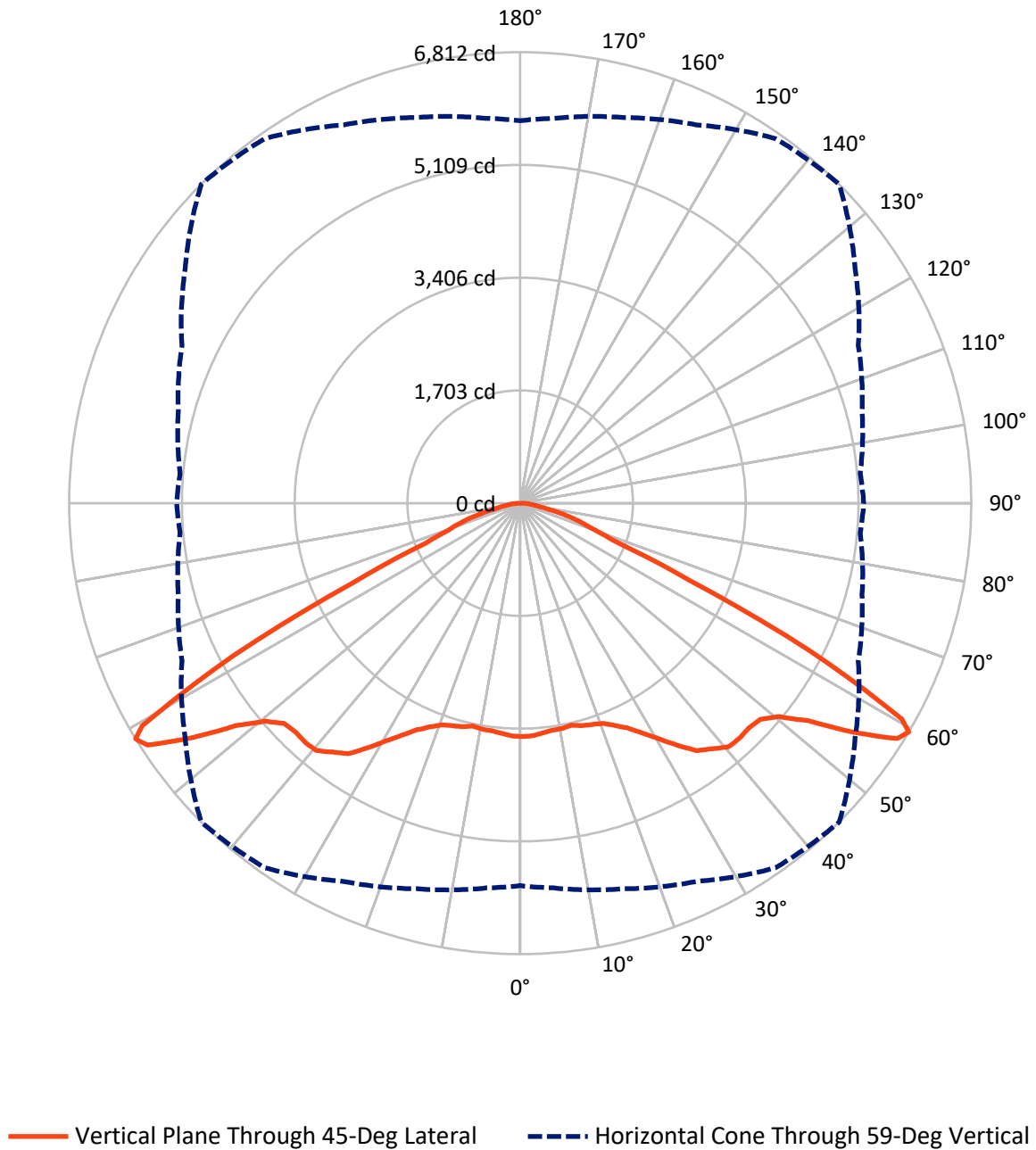
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	9125.5	0.0	9125.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9125.5	0.0	9125.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18251.0	0.0	18251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.3	1.8
10°-20°	988.2	5.4
20°-30°	1725.6	9.5
30°-40°	2756.0	15.1
40°-50°	3754.2	20.6
50°-60°	5076.8	27.8
60°-70°	2784.1	15.3
70°-80°	712.3	3.9
80°-90°	121.5	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°	18251.0	100.0
0°-180°	18251.0	100.0

Coefficient of Utilization



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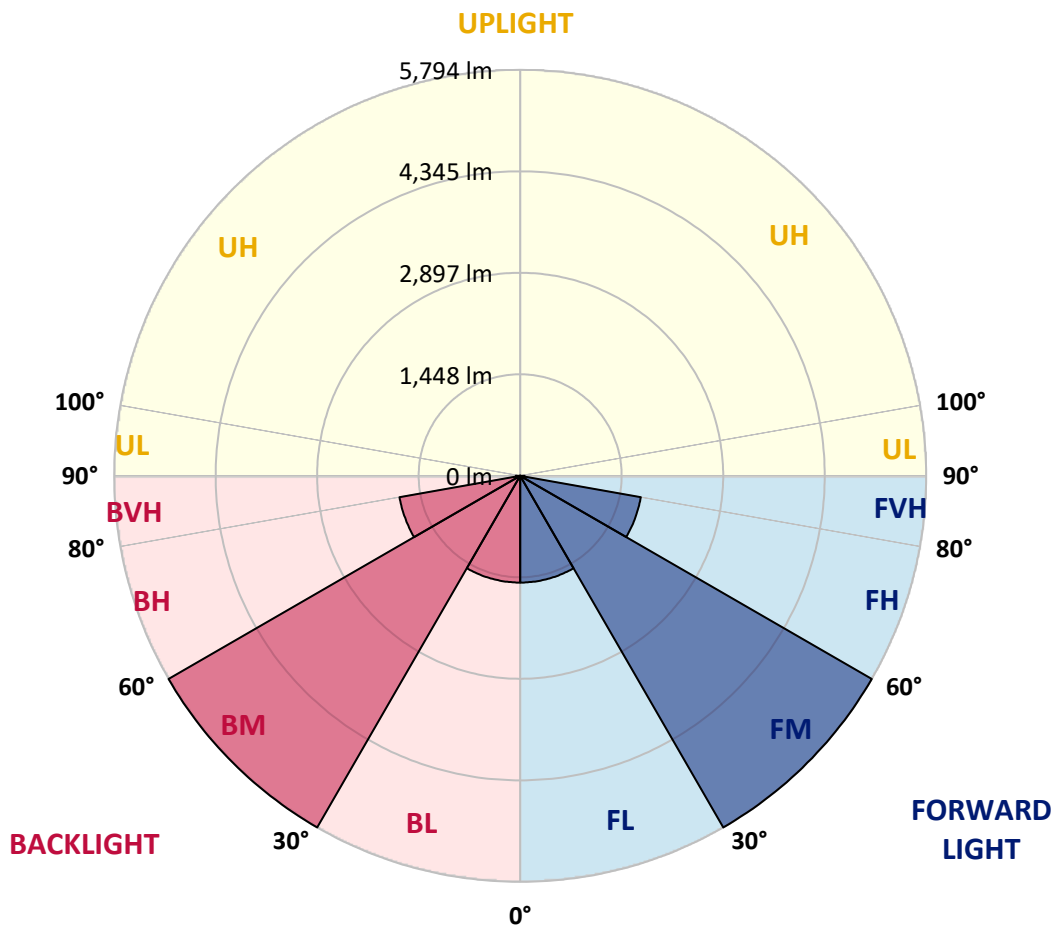
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1523.1	8.3			
FM (30°-60°)	5793.5	31.7			
FH (60°-80°)	1748.2	9.6			G1/1800
FVH (80°-90°)	60.7	0.3			G1/100
BL (0°-30°)	1523.1	8.3	B3/2500		
BM (30°-60°)	5793.5	31.7	B4/8500		
BH (60°-80°)	1748.2	9.6	B3/2500		G1/1800
BVH (80°-90°)	60.7	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3525.2	3525.2	3525.2	3525.2	3525.2	3525.2	3525.2	3525.2	3525.2	3525.2	3525.2
2.5°	3504.2	3529.9	3511.2	3527.6	3525.2	3518.2	3506.5	3499.5	3490.1	3504.2	3480.8
5°	3490.1	3511.2	3532.2	3504.2	3504.2	3490.1	3483.1	3469.1	3469.1	3466.7	3464.4
7.5°	3513.5	3492.5	3483.1	3487.8	3492.5	3462.1	3483.1	3455.0	3431.7	3448.0	3466.7
10°	3492.5	3501.8	3466.7	3483.1	3457.4	3462.1	3448.0	3466.7	3441.0	3441.0	3441.0
12.5°	3513.5	3487.8	3499.5	3487.8	3480.8	3441.0	3459.7	3438.7	3436.3	3459.7	3438.7
15°	3555.6	3513.5	3504.2	3480.8	3487.8	3487.8	3469.1	3471.4	3445.7	3459.7	3464.4
17.5°	3541.6	3518.2	3511.2	3483.1	3506.5	3513.5	3478.4	3455.0	3471.4	3469.1	3466.7
20°	3553.3	3562.6	3555.6	3560.3	3569.7	3551.0	3518.2	3485.5	3464.4	3494.8	3492.5
22.5°	3628.1	3618.8	3614.1	3609.4	3625.8	3644.5	3600.1	3548.6	3548.6	3569.7	3579.0
25°	3689.0	3686.6	3684.3	3705.3	3761.5	3761.5	3705.3	3639.8	3623.5	3637.5	3625.8
27.5°	3777.9	3803.6	3794.2	3831.7	3913.5	3932.2	3857.4	3780.2	3735.8	3719.4	3740.4
30°	3981.4	3951.0	3958.0	3997.7	4070.3	4131.1	4016.5	3934.6	3873.8	3871.4	3880.8
32.5°	4117.0	4140.4	4161.5	4198.9	4313.5	4360.3	4222.3	4089.0	4051.5	4030.5	4037.5
35°	4388.4	4367.3	4362.7	4400.1	4514.7	4591.9	4418.8	4301.8	4252.7	4299.5	4299.5
37.5°	4645.7	4587.2	4542.8	4591.9	4697.2	4706.5	4559.2	4496.0	4470.3	4524.1	4521.7
40°	4767.4	4762.7	4659.7	4687.8	4828.2	4842.2	4704.2	4629.3	4624.7	4694.8	4765.0
42.5°	4893.7	4849.2	4746.3	4765.0	4851.6	4856.2	4725.2	4704.2	4755.7	4823.5	4828.2
45°	4914.7	4877.3	4811.8	4765.0	4828.2	4842.2	4765.0	4779.0	4783.7	4865.6	4865.6
47.5°	4956.8	4952.2	4914.7	4879.6	4891.3	4879.6	4830.5	4851.6	4921.7	4961.5	4942.8
50°	5073.8	5024.7	5062.1	5031.7	5034.0	5066.8	5022.3	5043.4	5029.3	4994.3	4970.9
52.5°	5331.1	5307.7	5340.5	5361.5	5384.9	5459.8	5408.3	5296.0	5190.8	5097.2	5094.8
55°	5707.7	5724.1	5787.3	5894.9	5986.1	6105.4	5857.4	5588.4	5420.0	5272.6	5282.0
57.5°	6063.3	6051.6	6138.1	6383.8	6650.4	6711.3	6224.7	5841.1	5567.4	5473.8	5434.0
59°	5777.9	5834.0	6030.5	6304.2	6722.9	6811.8	6175.6	5635.2	5345.1	5155.7	5188.4
60°	5328.8	5349.8	5525.3	5906.6	6472.7	6624.7	5845.7	5317.1	4931.1	4821.2	4870.3
62.5°	3766.2	3749.8	3876.1	4187.2	4694.8	4900.7	4346.3	3974.4	3731.1	3609.4	3637.5
65°	2002.4	2077.2	2128.7	2322.9	2591.9	2809.4	2580.2	2418.8	2283.1	2182.5	2180.2
67.5°	1352.1	1342.7	1354.4	1398.9	1490.1	1550.9	1546.2	1464.4	1452.7	1433.9	1455.0
70°	1139.2	1134.5	1113.5	1113.5	1132.2	1146.2	1162.6	1172.0	1190.7	1214.1	1211.7
72.5°	924.0	912.3	898.3	891.2	914.6	921.7	942.7	952.1	968.4	966.1	987.2
75°	610.5	610.5	626.9	645.6	652.6	666.7	669.0	697.1	697.1	701.8	683.1
77.5°	341.5	332.2	343.9	362.6	379.0	404.7	430.4	451.5	463.2	458.5	458.5
80°	198.8	198.8	210.5	231.6	252.6	276.0	294.7	311.1	322.8	318.1	308.8
82.5°	124.0	124.0	135.7	156.7	173.1	187.1	212.9	233.9	248.0	243.3	231.6
85°	63.2	63.2	77.2	91.2	112.3	121.6	119.3	109.9	107.6	95.9	95.9
87.5°	16.4	16.4	23.4	25.7	21.1	23.4	23.4	23.4	23.4	23.4	25.7
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)