

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: P528616

Luminaire Tested: **GALN-SA3D-727-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528616  
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-727-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 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: 16384.9 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

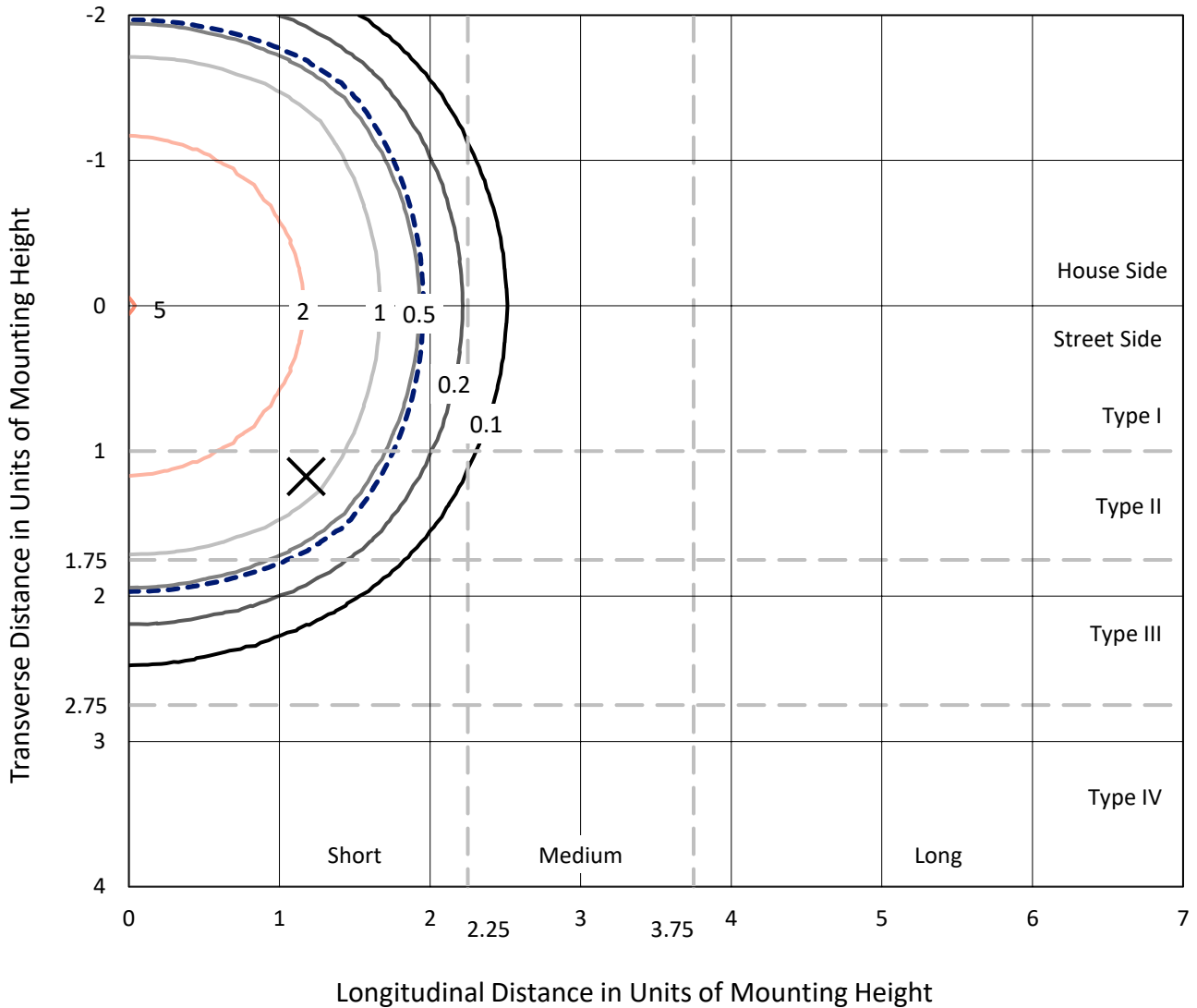
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

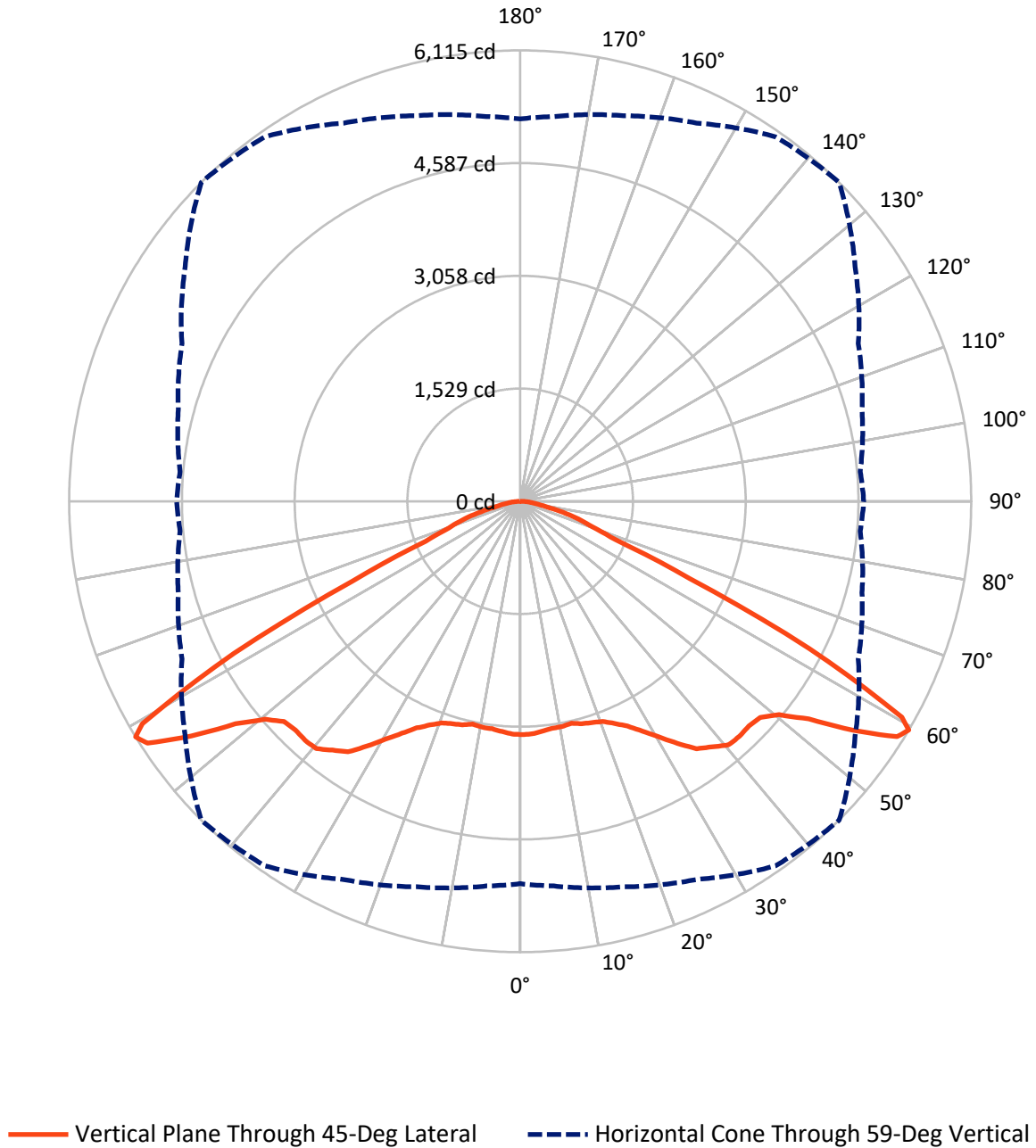
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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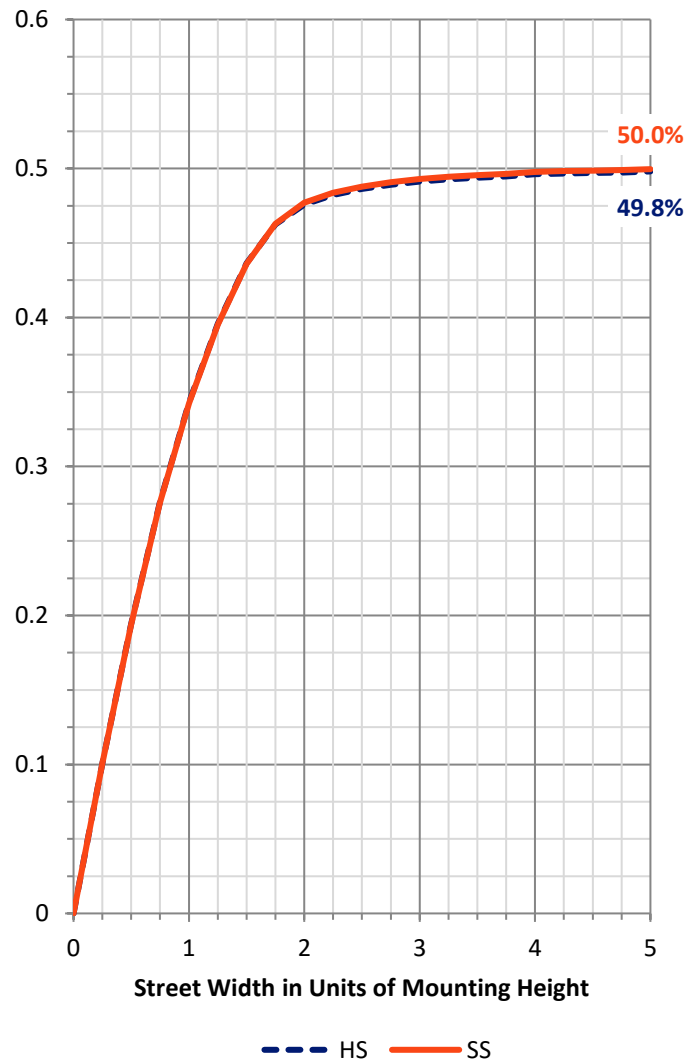
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8192.5	0.0	8192.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8192.5	0.0	8192.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16384.9	0.0	16384.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.3	1.8
10°-20°	887.2	5.4
20°-30°	1549.2	9.5
30°-40°	2474.2	15.1
40°-50°	3370.4	20.6
50°-60°	4557.7	27.8
60°-70°	2499.4	15.3
70°-80°	639.4	3.9
80°-90°	109.1	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°	16384.9	100.0
0°-180°	16384.9	100.0

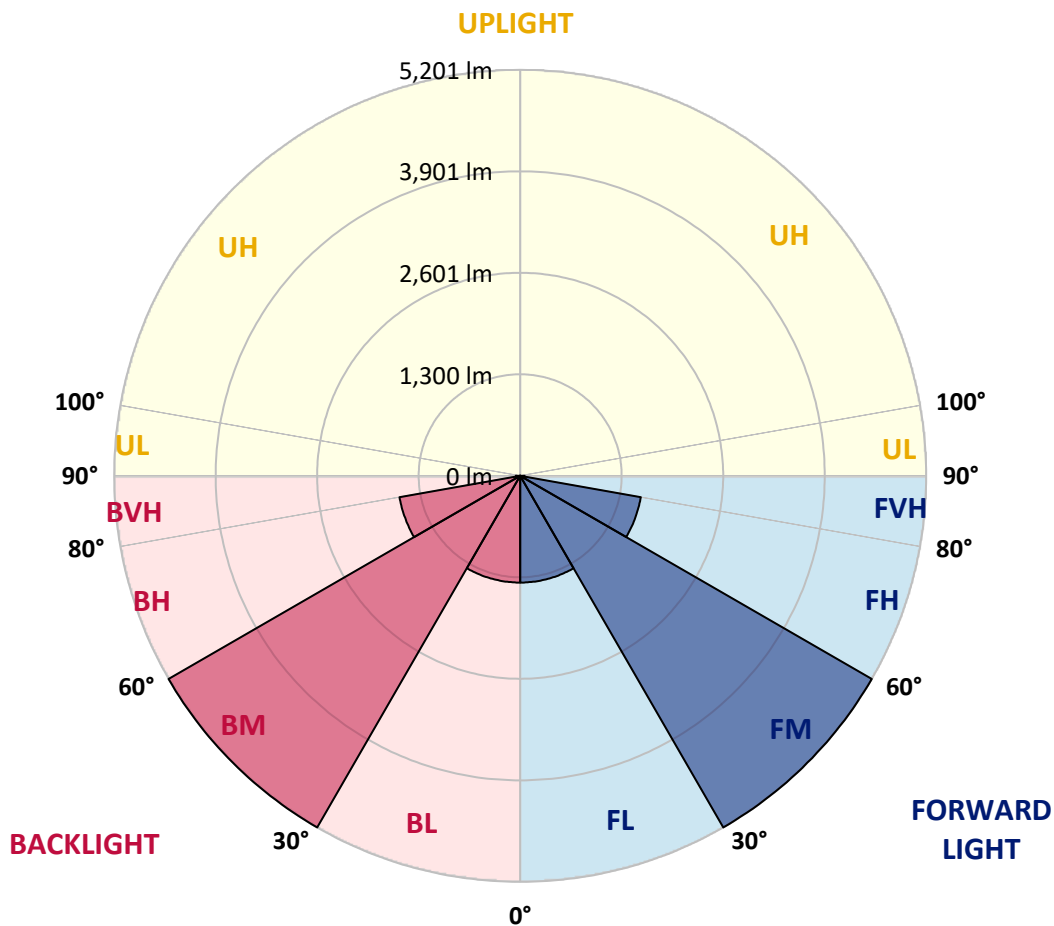


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1367.4	8.3			
FM (30°-60°)	5201.2	31.7			
FH (60°-80°)	1569.4	9.6			G1/1800
FVH (80°-90°)	54.5	0.3			G1/100
BL (0°-30°)	1367.4	8.3	B3/2500		
BM (30°-60°)	5201.2	31.7	B4/8500		
BH (60°-80°)	1569.4	9.6	B3/2500		G1/1800
BVH (80°-90°)	54.5	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°	3164.8	3164.8	3164.8	3164.8	3164.8	3164.8	3164.8	3164.8	3164.8	3164.8	3164.8
2.5°	3145.9	3169.0	3152.2	3166.9	3164.8	3158.5	3148.0	3141.7	3133.3	3145.9	3124.9
5°	3133.3	3152.2	3171.1	3145.9	3145.9	3133.3	3127.0	3114.4	3114.4	3112.3	3110.2
7.5°	3154.3	3135.4	3127.0	3131.2	3135.4	3108.1	3127.0	3101.8	3080.8	3095.5	3112.3
10°	3135.4	3143.8	3112.3	3127.0	3103.9	3108.1	3095.5	3112.3	3089.2	3089.2	3089.2
12.5°	3154.3	3131.2	3141.7	3131.2	3124.9	3089.2	3106.0	3087.1	3085.0	3106.0	3087.1
15°	3192.1	3154.3	3145.9	3124.9	3131.2	3131.2	3114.4	3116.5	3093.4	3106.0	3110.2
17.5°	3179.5	3158.5	3152.2	3127.0	3148.0	3154.3	3122.8	3101.8	3116.5	3114.4	3112.3
20°	3190.0	3198.4	3192.1	3196.3	3204.7	3187.9	3158.5	3129.1	3110.2	3137.5	3135.4
22.5°	3257.2	3248.8	3244.6	3240.4	3255.1	3271.9	3232.0	3185.8	3185.8	3204.7	3213.1
25°	3311.8	3309.7	3307.6	3326.5	3376.9	3376.9	3326.5	3267.7	3253.0	3265.6	3255.1
27.5°	3391.6	3414.7	3406.3	3439.9	3513.4	3530.2	3463.0	3393.7	3353.8	3339.1	3358.0
30°	3574.3	3547.0	3553.3	3589.0	3654.1	3708.7	3605.8	3532.3	3477.7	3475.6	3484.0
32.5°	3696.1	3717.1	3736.0	3769.6	3872.5	3914.5	3790.6	3670.9	3637.3	3618.4	3624.7
35°	3939.7	3920.8	3916.6	3950.2	4053.1	4122.4	3967.0	3862.0	3817.9	3859.9	3859.9
37.5°	4170.7	4118.2	4078.3	4122.4	4216.9	4225.3	4093.0	4036.3	4013.2	4061.5	4059.4
40°	4279.9	4275.7	4183.3	4208.5	4334.5	4347.1	4223.2	4156.0	4151.8	4214.8	4277.8
42.5°	4393.3	4353.4	4261.0	4277.8	4355.5	4359.7	4242.1	4223.2	4269.4	4330.3	4334.5
45°	4412.2	4378.6	4319.8	4277.8	4334.5	4347.1	4277.8	4290.4	4294.6	4368.1	4368.1
47.5°	4450.0	4445.8	4412.2	4380.7	4391.2	4380.7	4336.6	4355.5	4418.5	4454.2	4437.4
50°	4555.0	4510.9	4544.5	4517.2	4519.3	4548.7	4508.8	4527.7	4515.1	4483.6	4462.6
52.5°	4786.0	4765.0	4794.4	4813.3	4834.4	4901.6	4855.4	4754.5	4660.0	4576.0	4573.9
55°	5124.2	5138.9	5195.6	5292.2	5374.1	5481.2	5258.6	5017.1	4865.9	4733.5	4741.9
57.5°	5443.4	5432.9	5510.6	5731.1	5970.5	6025.1	5588.3	5243.9	4998.2	4914.2	4878.5
59°	5187.2	5237.6	5414.0	5659.7	6035.6	6115.4	5544.2	5059.1	4798.6	4628.5	4657.9
60°	4783.9	4802.8	4960.4	5302.7	5810.9	5947.4	5248.1	4773.4	4426.9	4328.2	4372.3
62.5°	3381.1	3366.4	3479.8	3759.1	4214.8	4399.6	3901.9	3568.0	3349.6	3240.4	3265.6
65°	1797.7	1864.9	1911.1	2085.4	2326.9	2522.2	2316.4	2171.5	2049.7	1959.4	1957.3
67.5°	1213.8	1205.4	1215.9	1255.8	1337.7	1392.3	1388.1	1314.6	1304.1	1287.3	1306.2
70°	1022.7	1018.5	999.6	999.6	1016.4	1029.0	1043.7	1052.1	1068.9	1089.9	1087.8
72.5°	829.5	819.0	806.4	800.1	821.1	827.4	846.3	854.7	869.4	867.3	886.2
75°	548.1	548.1	562.8	579.6	585.9	598.5	600.6	625.8	625.8	630.0	613.2
77.5°	306.6	298.2	308.7	325.5	340.2	363.3	386.4	405.3	415.8	411.6	411.6
80°	178.5	178.5	189.0	207.9	226.8	247.8	264.6	279.3	289.8	285.6	277.2
82.5°	111.3	111.3	121.8	140.7	155.4	168.0	191.1	210.0	222.6	218.4	207.9
85°	56.7	56.7	69.3	81.9	100.8	109.2	107.1	98.7	96.6	86.1	86.1
87.5°	14.7	14.7	21.0	23.1	18.9	21.0	21.0	21.0	21.0	21.0	23.1
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)