

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: P528612

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528612  
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-727-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 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: 17047 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

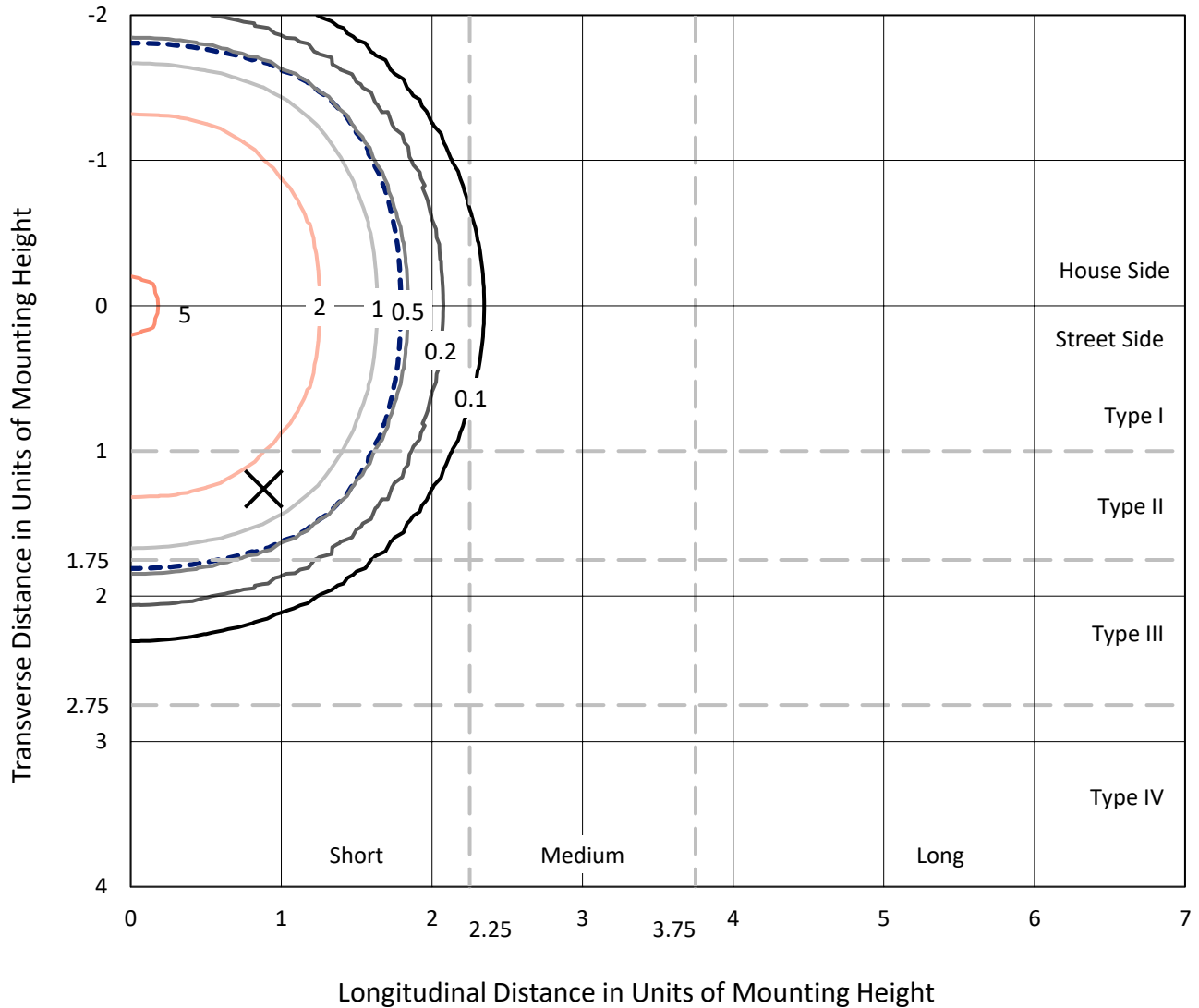
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

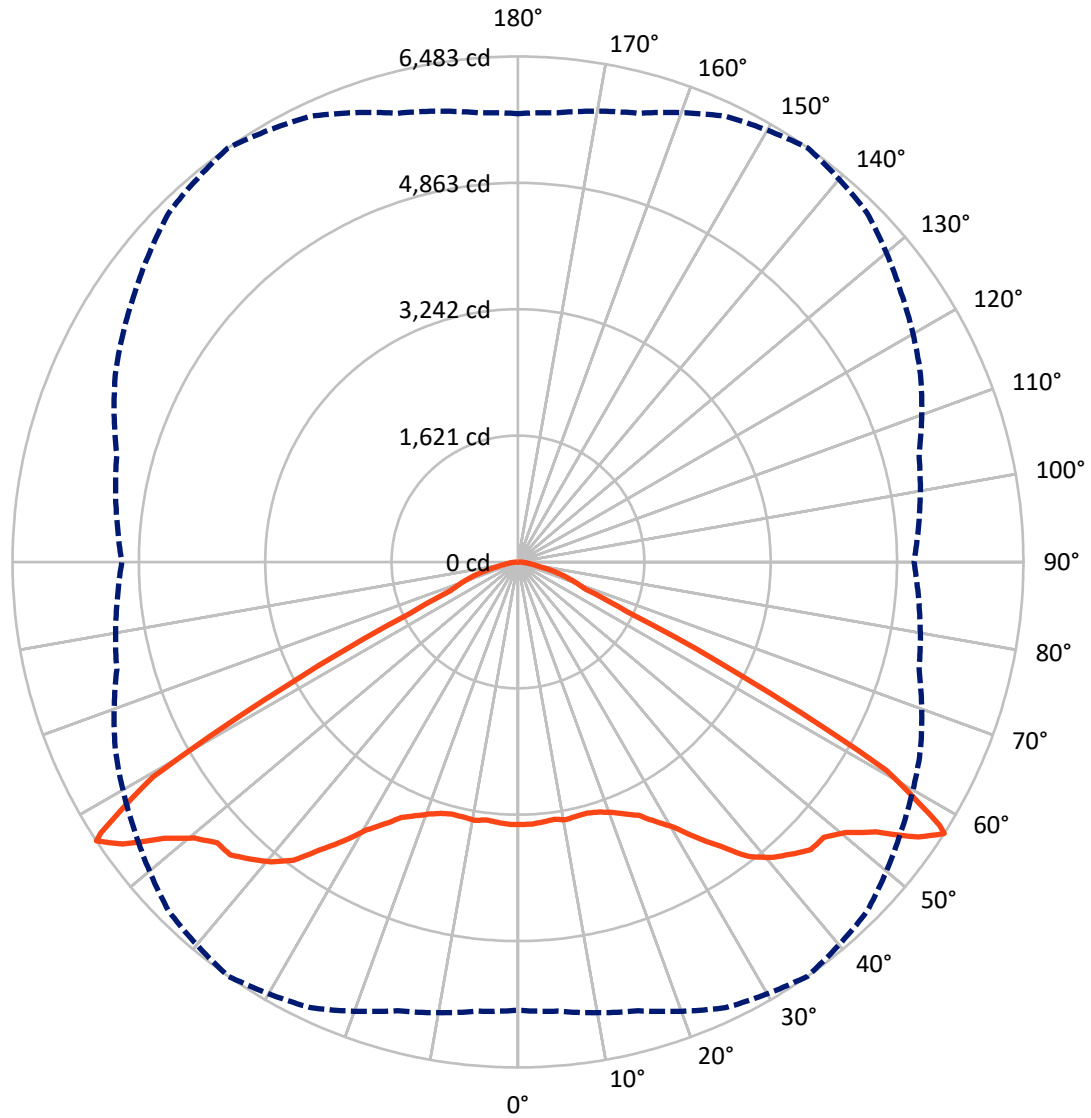
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	8523.5	0.0	8523.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8523.5	0.0	8523.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17047.0	0.0	17047.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.2	1.9
10°-20°	945.3	5.5
20°-30°	1651.0	9.7
30°-40°	2705.1	15.9
40°-50°	3966.4	23.3
50°-60°	4995.9	29.3
60°-70°	1878.9	11.0
70°-80°	499.6	2.9
80°-90°	85.7	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°	17047.0	100.0
0°-180°	17047.0	100.0

**Coefficient of Utilization**



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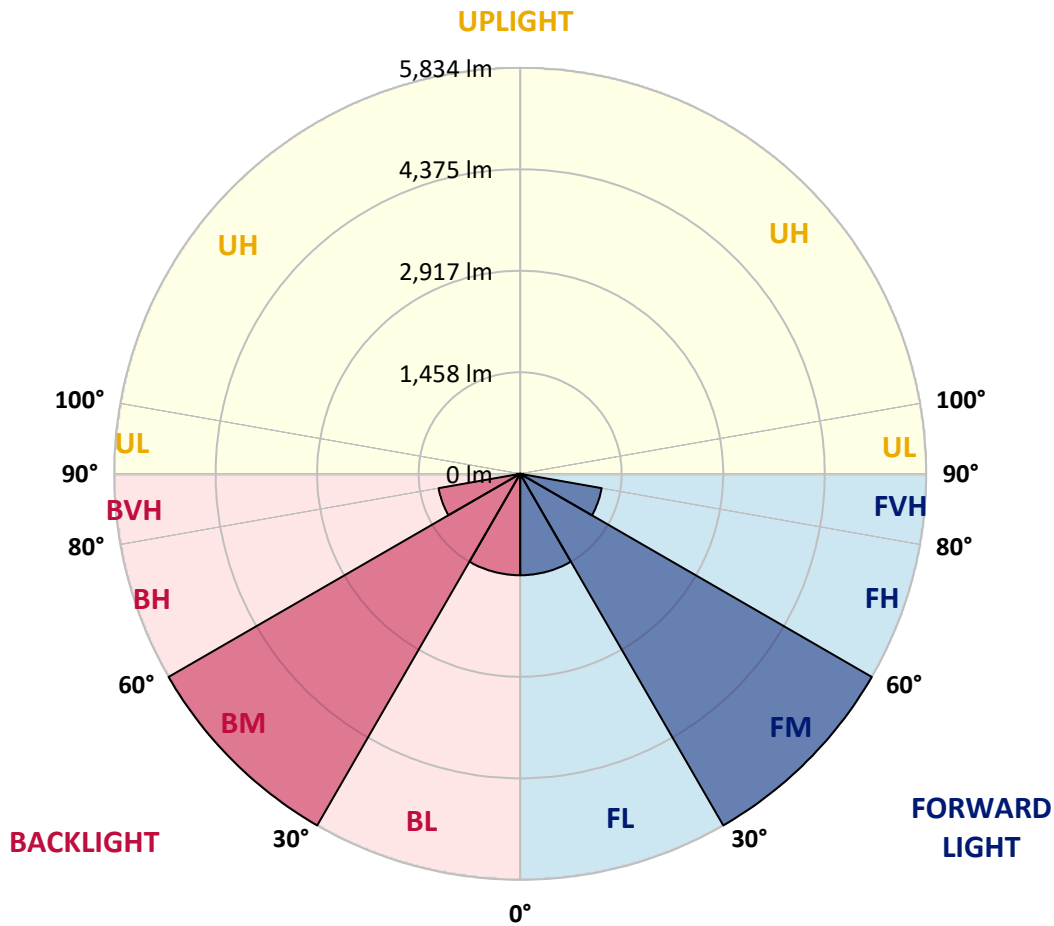
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1457.7	8.6			
FM (30°-60°)	5833.7	34.2			
FH (60°-80°)	1189.3	7.0			G1/1800
FVH (80°-90°)	42.8	0.3			G1/100
BL (0°-30°)	1457.7	8.6	B3/2500		
BM (30°-60°)	5833.7	34.2	B4/8500		
BH (60°-80°)	1189.3	7.0	B3/2500		G1/1800
BVH (80°-90°)	42.8	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°	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7	3366.7
2.5°	3349.9	3383.5	3368.8	3360.4	3366.7	3356.2	3339.4	3358.3	3354.1	3337.3	3331.0
5°	3341.5	3366.7	3349.9	3366.7	3349.9	3379.3	3370.9	3339.4	3377.2	3341.5	3354.1
7.5°	3335.2	3343.6	3347.8	3339.4	3333.1	3368.8	3349.9	3335.2	3314.2	3307.9	3318.4
10°	3320.5	3341.5	3310.0	3352.0	3360.4	3335.2	3335.2	3307.9	3291.0	3280.5	3316.3
12.5°	3358.3	3322.6	3318.4	3339.4	3345.7	3356.2	3326.8	3312.1	3280.5	3284.7	3278.4
15°	3314.2	3328.9	3331.0	3335.2	3341.5	3366.7	3339.4	3307.9	3295.2	3251.1	3255.3
17.5°	3331.0	3316.3	3331.0	3379.3	3370.9	3389.8	3360.4	3312.1	3282.6	3257.4	3291.0
20°	3360.4	3354.1	3360.4	3419.2	3429.7	3446.5	3421.3	3377.2	3320.5	3291.0	3307.9
22.5°	3391.9	3387.7	3391.9	3448.6	3509.5	3530.5	3505.3	3402.4	3373.0	3318.4	3299.4
25°	3448.6	3452.8	3496.9	3559.9	3599.8	3639.7	3593.5	3520.0	3425.5	3391.9	3352.0
27.5°	3574.6	3585.1	3610.3	3702.7	3772.0	3807.7	3742.6	3641.8	3583.0	3513.7	3503.2
30°	3730.0	3730.0	3774.1	3853.9	3948.4	4003.0	3923.2	3803.5	3732.1	3694.3	3671.2
32.5°	3935.8	3912.7	3929.5	4070.2	4217.2	4263.5	4156.3	4009.3	3895.9	3845.5	3828.7
35°	4112.2	4126.9	4164.7	4316.0	4479.8	4586.9	4418.9	4227.7	4112.2	4066.0	4057.6
37.5°	4341.2	4366.4	4385.3	4593.2	4790.6	4830.5	4668.8	4515.5	4374.8	4337.0	4316.0
40°	4664.6	4647.8	4654.1	4807.4	4985.9	5011.1	4851.5	4742.3	4626.8	4603.7	4603.7
42.5°	4931.3	4912.4	4933.4	4990.1	5126.6	5107.7	5019.5	4939.7	4891.4	4866.2	4891.4
45°	5093.0	5088.8	5126.6	5168.6	5265.3	5202.3	5132.9	5145.5	5099.3	5057.3	5055.2
47.5°	5269.5	5242.2	5288.4	5351.4	5277.9	5248.5	5244.3	5271.6	5256.9	5183.3	5160.2
50°	5355.6	5345.1	5418.6	5492.1	5452.2	5385.0	5399.7	5443.8	5254.8	5156.0	5099.3
52.5°	5586.6	5588.7	5729.4	5769.3	5752.5	5653.8	5685.3	5565.6	5343.0	5204.4	5210.7
55°	5949.9	5935.2	6092.7	6210.4	6229.3	6103.2	5952.0	5784.0	5504.7	5364.0	5322.0
57°	5750.4	5784.0	5958.3	6307.0	6483.4	6334.3	6004.5	5697.9	5326.2	5156.0	5080.4
57.5°	5483.7	5538.3	5840.7	6191.5	6376.3	6363.7	5939.4	5538.3	5206.5	4941.8	4948.1
60°	4017.7	4028.2	4301.3	4857.8	5435.4	5448.0	4931.3	4400.0	4030.3	3742.6	3782.5
62.5°	2119.1	2167.4	2276.6	2724.0	3223.8	3345.7	3032.7	2759.7	2440.5	2222.0	2243.0
65°	1121.5	1115.2	1167.7	1293.7	1539.5	1602.5	1560.5	1344.1	1232.8	1197.1	1199.2
67.5°	911.5	922.0	915.7	922.0	938.8	966.1	959.8	968.2	974.5	985.0	982.9
70°	772.9	772.9	777.1	779.2	779.2	791.8	806.5	833.8	835.9	846.4	850.6
72.5°	609.1	604.9	611.2	625.9	628.0	638.5	659.5	676.3	682.6	682.6	670.0
75°	413.7	417.9	426.3	438.9	451.5	470.4	487.3	497.8	502.0	495.7	489.4
77.5°	233.1	237.3	243.6	262.5	277.2	294.0	312.9	323.4	333.9	336.0	323.4
80°	138.6	138.6	149.1	163.8	180.6	197.4	214.2	226.8	231.0	231.0	224.7
82.5°	84.0	86.1	94.5	109.2	123.9	134.4	149.1	159.6	168.0	165.9	161.7
85°	44.1	44.1	52.5	65.1	75.6	86.1	86.1	79.8	75.6	65.1	60.9
87.5°	14.7	12.6	16.8	16.8	14.7	16.8	16.8	18.9	18.9	18.9	18.9
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)