

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: P528640

Luminaire Tested: **GALN-SA3D-730-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528640  
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-730-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 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: 18944 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

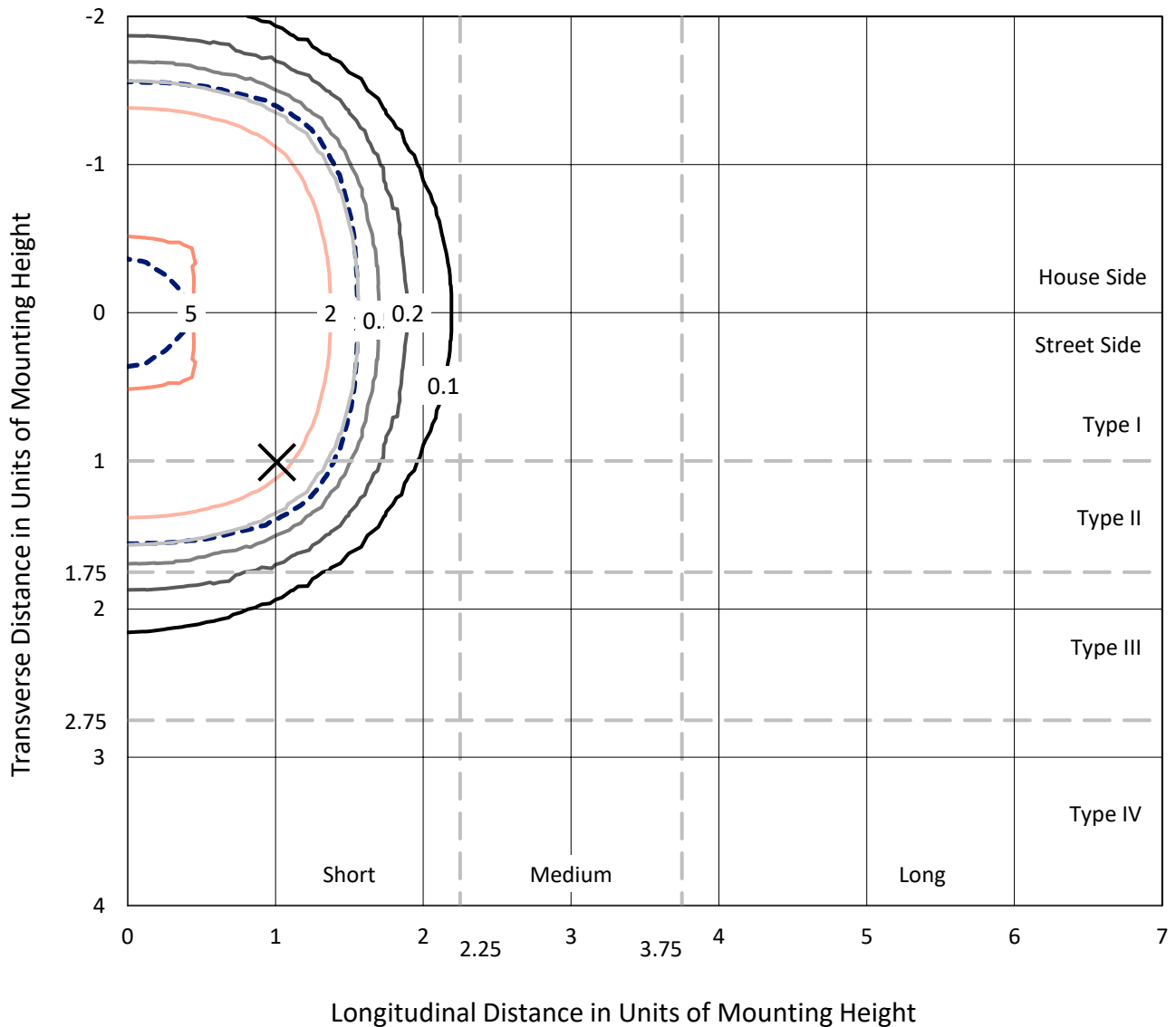
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

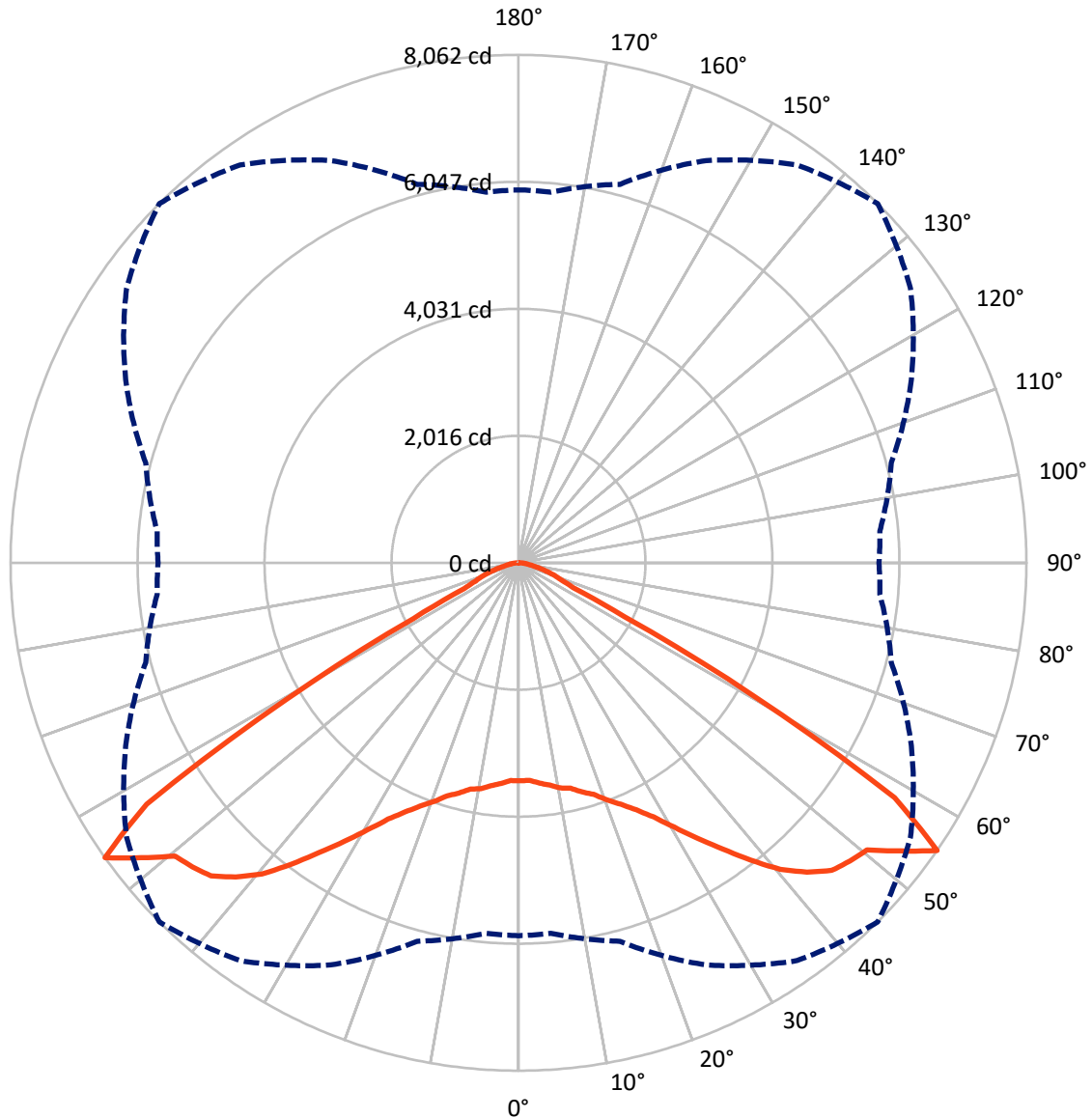
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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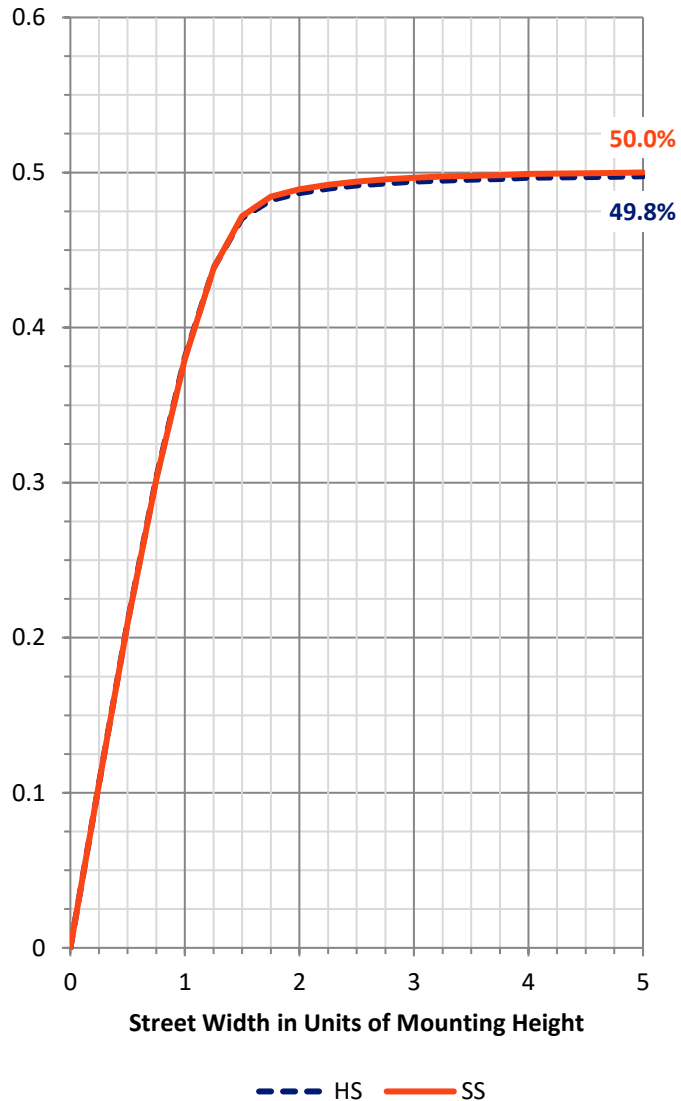
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9472.0	0.0	9472.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9472.0	0.0	9472.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18944.0	0.0	18944.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.9	1.8
10°-20°	1070.6	5.7
20°-30°	1996.4	10.5
30°-40°	3342.6	17.6
40°-50°	5201.4	27.5
50°-60°	5400.7	28.5
60°-70°	1145.3	6.0
70°-80°	377.2	2.0
80°-90°	71.8	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°	18944.0	100.0
0°-180°	18944.0	100.0

**Coefficient of Utilization**

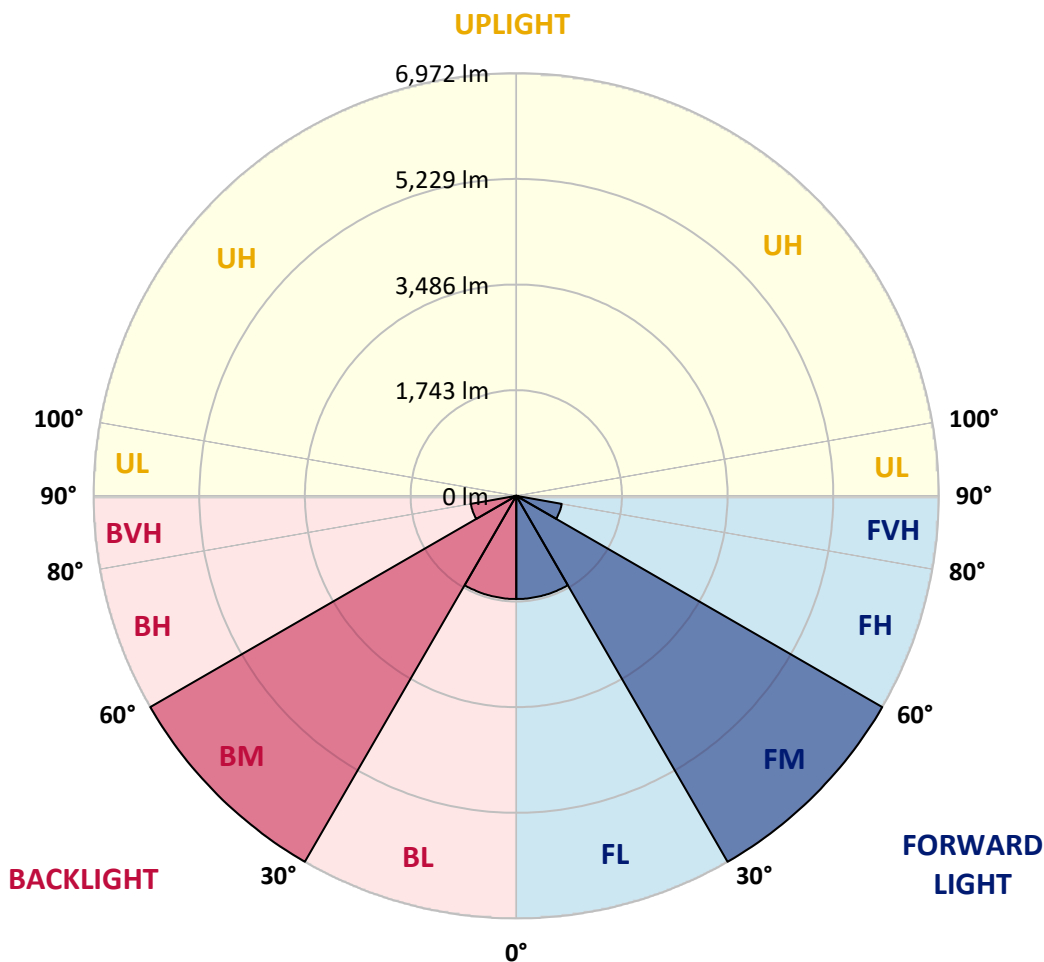


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1702.5	9.0			
FM (30°-60°)	6972.4	36.8			
FH (60°-80°)	761.2	4.0			G1/1800
FVH (80°-90°)	35.9	0.2			G1/100
BL (0°-30°)	1702.5	9.0	B3/2500		
BM (30°-60°)	6972.4	36.8	B4/8500		
BH (60°-80°)	761.2	4.0	B2/1000		G1/1800
BVH (80°-90°)	35.9	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°	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9
2.5°	3500.1	3484.1	3456.6	3477.2	3493.2	3458.9	3472.6	3479.5	3474.9	3456.6	3463.5
5°	3550.5	3541.3	3518.4	3534.4	3513.8	3513.8	3500.1	3481.8	3509.3	3504.7	3516.1
7.5°	3550.5	3539.0	3584.8	3555.0	3564.2	3564.2	3541.3	3523.0	3536.7	3516.1	3504.7
10°	3621.4	3637.4	3616.8	3623.7	3619.1	3635.2	3600.8	3589.4	3577.9	3571.1	3557.3
12.5°	3706.1	3694.7	3701.5	3697.0	3713.0	3671.8	3651.2	3626.0	3646.6	3616.8	3637.4
15°	3774.8	3767.9	3774.8	3793.1	3777.1	3774.8	3738.2	3713.0	3680.9	3687.8	3655.8
17.5°	3868.6	3861.8	3864.1	3880.1	3877.8	3866.4	3838.9	3790.8	3779.4	3761.1	3740.5
20°	4008.3	3996.8	3992.3	3999.1	4010.6	4019.7	3964.8	3946.5	3907.6	3877.8	3843.5
22.5°	4127.3	4122.7	4141.1	4111.3	4136.5	4163.9	4111.3	4102.1	4006.0	3990.0	3953.3
25°	4292.1	4285.3	4273.8	4317.3	4347.1	4344.8	4294.4	4244.1	4170.8	4152.5	4152.5
27.5°	4466.1	4427.2	4486.7	4498.2	4550.8	4566.8	4523.3	4450.1	4381.4	4342.5	4351.7
30°	4683.6	4647.0	4660.7	4743.1	4811.8	4871.3	4761.4	4653.8	4557.7	4489.0	4477.6
32.5°	4901.1	4864.4	4905.6	4985.7	5123.1	5212.4	5104.8	4917.1	4804.9	4704.2	4724.8
35°	5077.3	5104.8	5171.2	5292.5	5434.4	5578.6	5407.0	5262.7	5102.5	4990.3	5006.4
37.5°	5361.2	5445.9	5498.5	5638.2	5839.6	5988.4	5809.8	5622.1	5450.4	5303.9	5253.6
40°	5732.0	5789.2	5848.8	6013.6	6251.6	6400.4	6231.0	5986.1	5816.7	5665.6	5658.8
42.5°	6139.5	6194.4	6256.2	6457.7	6599.6	6711.8	6556.1	6425.6	6237.9	6118.9	6112.0
45°	6613.3	6574.4	6643.1	6775.9	6894.9	6968.1	6867.4	6803.3	6668.3	6558.4	6546.9
47.5°	6929.2	6894.9	7018.5	7137.5	7155.9	7075.7	7096.3	7155.9	7013.9	6833.1	6890.3
50°	7112.4	7112.4	7194.8	7304.6	7270.3	7167.3	7329.8	7334.4	7192.5	7032.2	7032.2
52.5°	6794.2	6865.1	7098.6	7458.0	7572.5	7602.2	7565.6	7409.9	7039.1	6711.8	6695.7
55°	5919.7	5903.7	6219.6	7043.7	7709.8	8062.4	7595.4	6878.9	6125.7	5757.2	5720.6
57.5°	3850.3	3868.6	4340.2	5180.3	6382.1	7039.1	6251.6	5244.4	4340.2	3832.0	3880.1
60°	1732.9	1794.7	2080.8	2708.1	3740.5	4276.1	3749.6	2845.4	2183.8	1895.4	1920.6
62.5°	995.8	1007.2	1018.7	1208.7	1593.2	1884.0	1655.0	1277.3	1126.3	1075.9	1075.9
65°	840.1	833.2	835.5	851.6	892.8	952.3	927.1	892.8	897.3	892.8	885.9
67.5°	714.2	723.4	716.5	727.9	730.2	739.4	755.4	769.2	771.4	776.0	771.4
70°	586.0	588.3	592.9	602.0	604.3	611.2	634.1	645.5	652.4	652.4	661.6
72.5°	448.7	446.4	451.0	460.1	471.6	473.9	494.5	510.5	519.6	508.2	510.5
75°	295.3	297.6	304.5	311.3	327.3	343.4	350.2	366.3	368.6	373.1	361.7
77.5°	176.3	180.8	187.7	201.4	215.2	228.9	244.9	256.4	261.0	256.4	242.6
80°	114.5	114.5	123.6	135.1	151.1	162.5	171.7	180.8	187.7	180.8	176.3
82.5°	71.0	71.0	82.4	96.1	107.6	114.5	128.2	139.6	146.5	141.9	135.1
85°	36.6	38.9	48.1	59.5	68.7	73.3	71.0	64.1	57.2	54.9	50.4
87.5°	11.4	11.4	13.7	13.7	11.4	11.4	13.7	11.4	13.7	13.7	13.7
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)