

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: P455557

Luminaire Tested: **GALN-SA6D-730-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455557  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43725 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

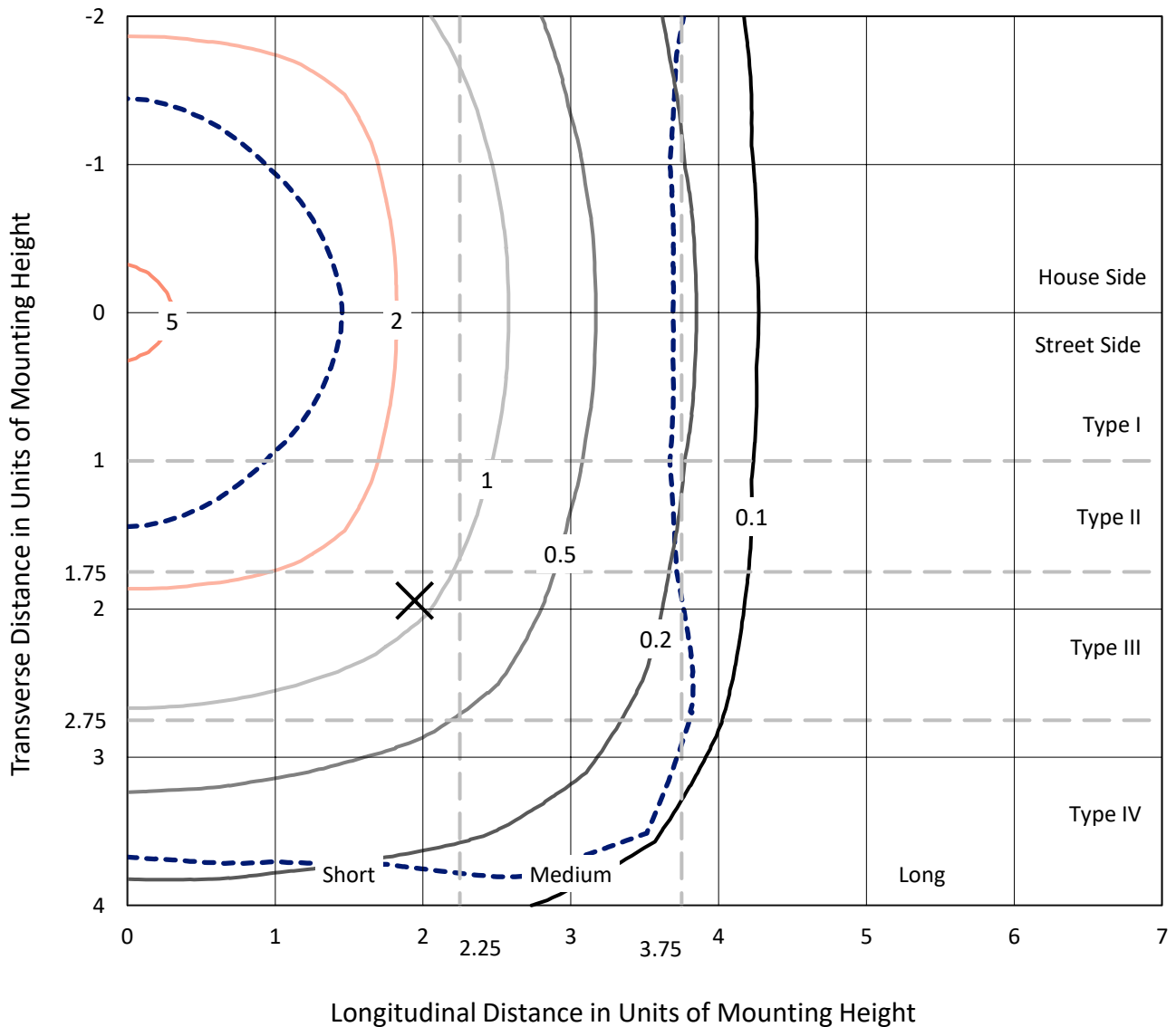
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455557  
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### Iso-Footcandle Lines of Horizontal Illumination

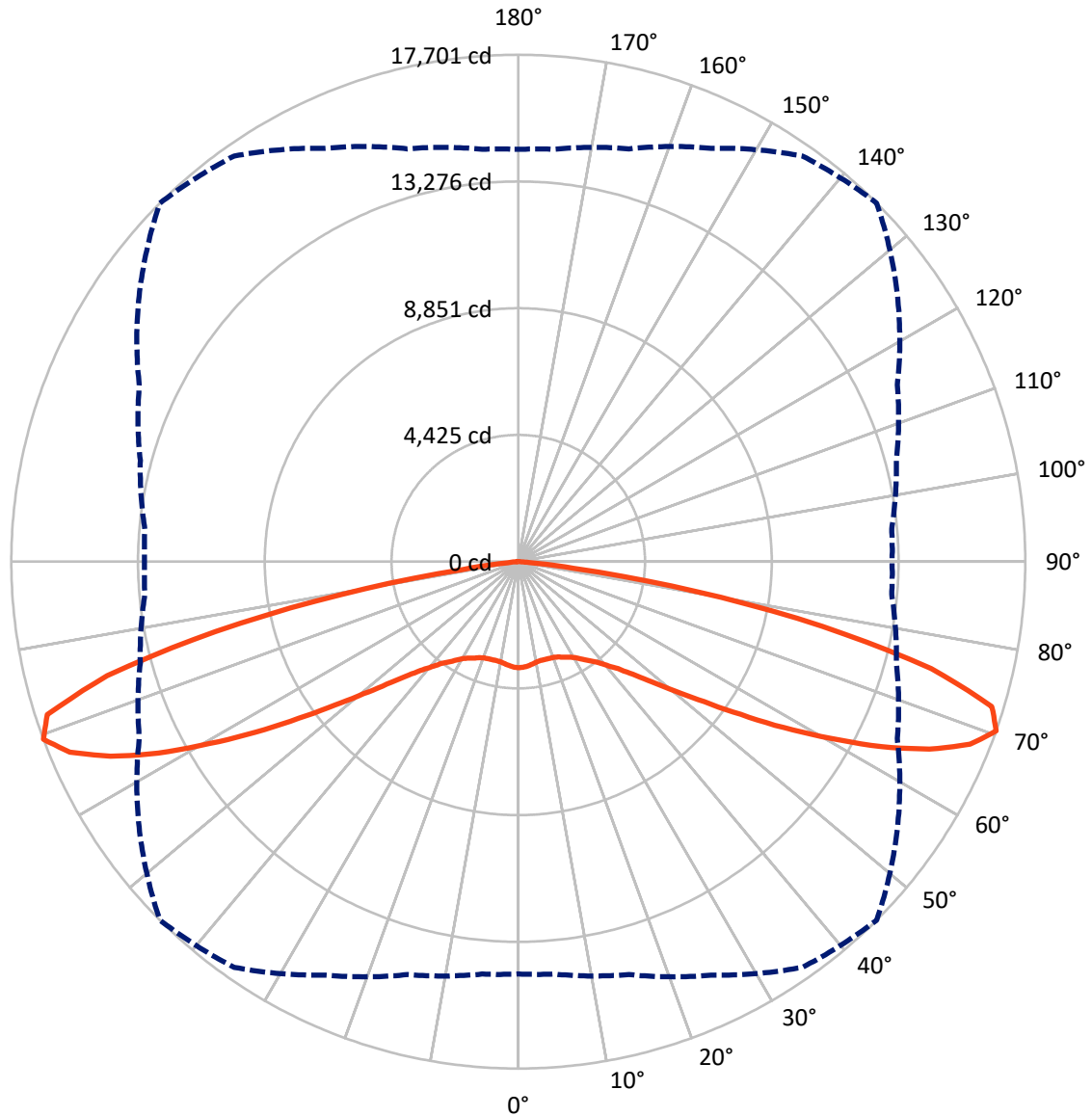
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type V - Short - N/A

REPORT NUMBER: P455557  
CATALOG NUMBER: GALN-SA6D-730-U-5WQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P455557

CATALOG NUMBER: GALN-SA6D-730-U-5WQ

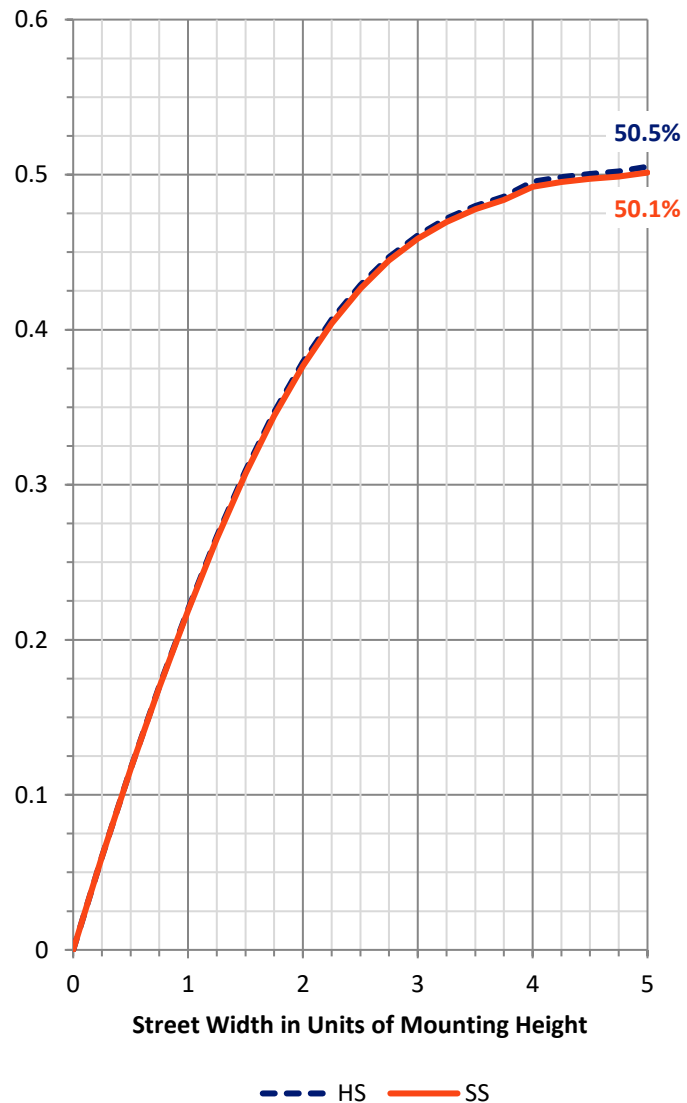
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21862.5	0.0	21862.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21862.5	0.0	21862.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43725.0	0.0	43725.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.2	0.8
10°-20°	1013.5	2.3
20°-30°	1726.8	3.9
30°-40°	2676.5	6.1
40°-50°	4504.9	10.3
50°-60°	8196.4	18.7
60°-70°	13876.3	31.7
70°-80°	10740.8	24.6
80°-90°	643.6	1.5
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°	43725.0	100.0
0°-180°	43725.0	100.0



REPORT NUMBER: P455557

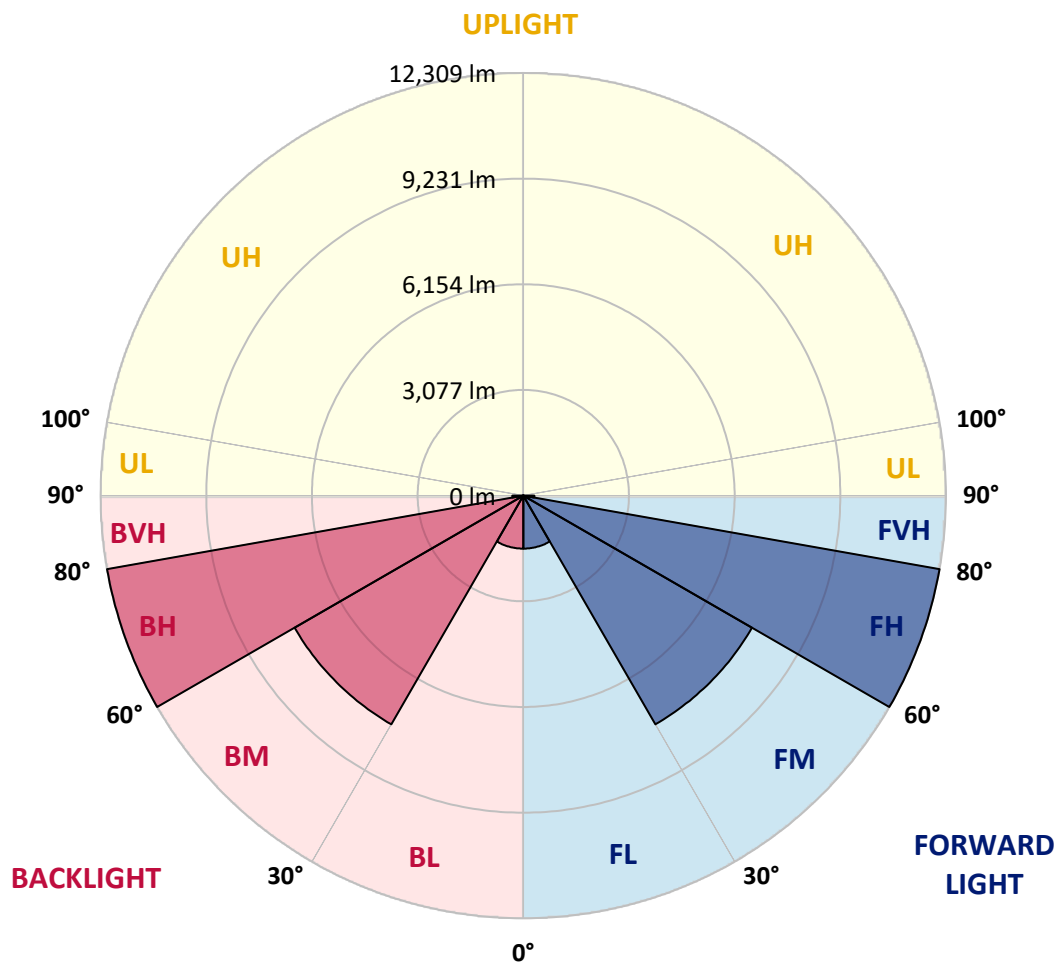
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1543.2	3.5			
FM (30°-60°)	7688.9	17.6			
FH (60°-80°)	12308.6	28.1			G5
FVH (80°-90°)	321.8	0.7			G3/500
BL (0°-30°)	1543.2	3.5	B3/2500		
BM (30°-60°)	7688.9	17.6	B4/8500		
BH (60°-80°)	12308.6	28.1	B5		G5
BVH (80°-90°)	321.8	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9	3701.9
2.5°	3692.6	3694.9	3694.9	3690.3	3688.0	3688.0	3685.7	3685.7	3692.6	3694.9	3697.2
5°	3660.3	3660.3	3660.3	3658.0	3653.4	3653.4	3648.7	3648.7	3651.1	3658.0	3653.4
7.5°	3616.4	3621.0	3621.0	3611.8	3604.9	3604.9	3602.6	3604.9	3607.2	3614.1	3611.8
10°	3602.6	3604.9	3593.3	3577.2	3565.6	3558.7	3561.0	3565.6	3577.2	3581.8	3584.1
12.5°	3611.8	3611.8	3591.0	3567.9	3547.1	3537.9	3535.6	3551.8	3572.5	3586.4	3591.0
15°	3623.3	3618.7	3593.3	3563.3	3542.5	3540.2	3537.9	3549.4	3579.5	3607.2	3609.5
17.5°	3630.3	3628.0	3595.6	3558.7	3547.1	3547.1	3544.8	3554.1	3586.4	3621.0	3623.3
20°	3653.4	3646.4	3609.5	3570.2	3561.0	3565.6	3558.7	3570.2	3604.9	3646.4	3655.7
22.5°	3699.5	3692.6	3655.7	3616.4	3611.8	3611.8	3609.5	3621.0	3658.0	3701.9	3708.8
25°	3755.0	3748.0	3713.4	3685.7	3690.3	3699.5	3694.9	3697.2	3727.3	3764.2	3775.8
27.5°	3828.9	3817.3	3787.3	3764.2	3778.1	3778.1	3778.1	3775.8	3794.2	3828.9	3840.4
30°	3918.9	3914.3	3882.0	3879.7	3891.2	3879.7	3879.7	3882.0	3884.3	3916.6	3928.2
32.5°	4036.7	4027.5	4011.3	4006.7	4039.0	4048.3	4015.9	3985.9	4002.1	4034.4	4041.3
35°	4230.7	4216.8	4193.7	4168.3	4193.7	4237.6	4168.3	4145.2	4186.8	4230.7	4235.3
37.5°	4494.0	4487.0	4450.1	4403.9	4401.6	4447.8	4376.2	4373.9	4452.4	4505.5	4512.4
40°	4824.2	4831.1	4784.9	4741.1	4718.0	4754.9	4699.5	4720.3	4796.5	4856.5	4851.9
42.5°	5288.4	5263.0	5191.4	5149.8	5124.4	5110.5	5096.7	5129.0	5214.5	5279.1	5329.9
45°	5831.1	5821.8	5731.8	5681.0	5625.5	5604.7	5600.1	5657.9	5761.8	5840.3	5847.2
47.5°	6445.3	6424.6	6366.8	6313.7	6292.9	6267.5	6244.4	6288.3	6392.2	6447.7	6463.8
50°	7078.1	7082.7	7082.7	7073.5	7094.3	7098.9	7036.5	7052.7	7110.4	7105.8	7101.2
52.5°	7800.9	7826.3	7946.4	7958.0	8057.3	8124.2	8011.1	7944.1	7923.3	7798.6	7807.8
55°	8650.8	8673.8	8854.0	9034.1	9302.0	9415.1	9177.3	8969.4	8821.6	8632.3	8641.5
57.5°	9710.7	9722.3	9893.2	10239.6	10664.5	10930.1	10512.1	10101.0	9800.8	9620.7	9549.1
60°	10851.5	10863.1	11112.5	11535.1	12195.6	12518.9	12001.6	11329.6	10950.8	10676.0	10694.5
62.5°	12221.0	12267.2	12491.2	13073.1	13874.5	14237.0	13551.2	12652.8	12140.2	11798.4	11812.2
65°	13687.4	13765.9	14010.7	14650.4	15389.4	15779.7	14939.1	13902.2	13264.8	12846.8	12890.7
67.5°	14638.8	14708.1	15061.5	15768.1	16689.5	17012.8	15927.5	14719.7	13923.0	13424.1	13331.8
70°	14396.4	14454.1	14925.2	15927.5	17292.3	17701.0	16163.0	14599.6	13662.0	13087.0	13050.0
72.5°	12708.2	12588.2	13276.3	14715.1	16604.1	17290.0	15421.7	13334.1	12154.0	11562.8	11493.5
75°	8422.1	8683.1	9699.2	11394.2	14047.7	14897.5	13163.2	10706.1	9221.2	8729.3	8653.1
77.5°	2815.1	3016.0	3918.9	6459.2	9576.8	10853.9	9590.6	7001.9	4953.5	3990.5	4009.0
80°	745.9	736.7	953.8	1775.9	4138.3	6286.0	4817.3	2371.7	1297.8	939.9	891.4
82.5°	267.9	300.2	385.7	491.9	1096.9	1953.7	1378.7	665.1	487.3	360.3	348.7
85°	117.8	115.5	166.3	196.3	274.8	364.9	323.3	281.7	247.1	164.0	152.4
87.5°	25.4	25.4	39.3	30.0	48.5	48.5	60.0	71.6	73.9	48.5	39.3
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)