

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: P454632

Luminaire Tested: **GALN-SA5D-730-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454632  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5D-730-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36401 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

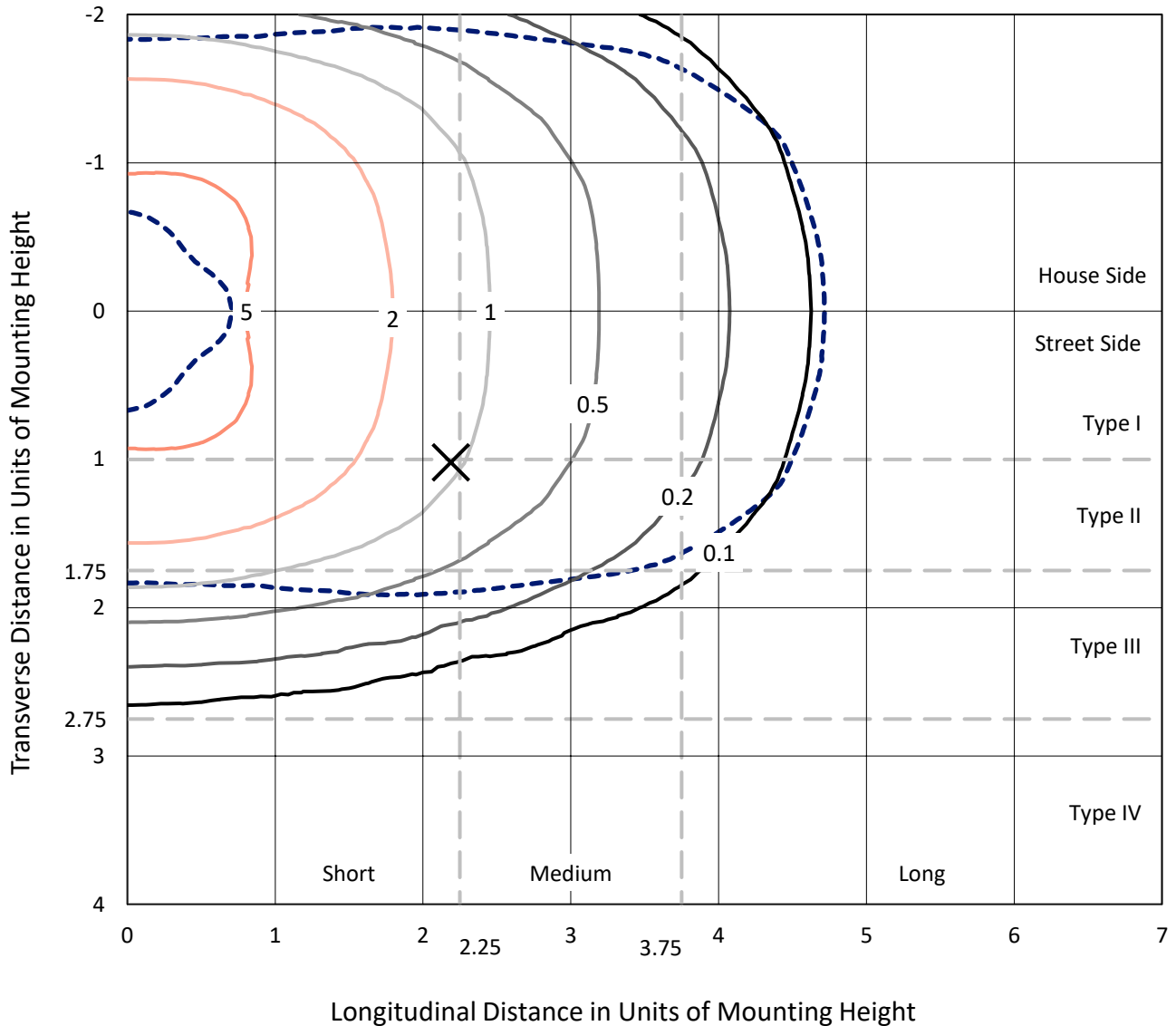
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

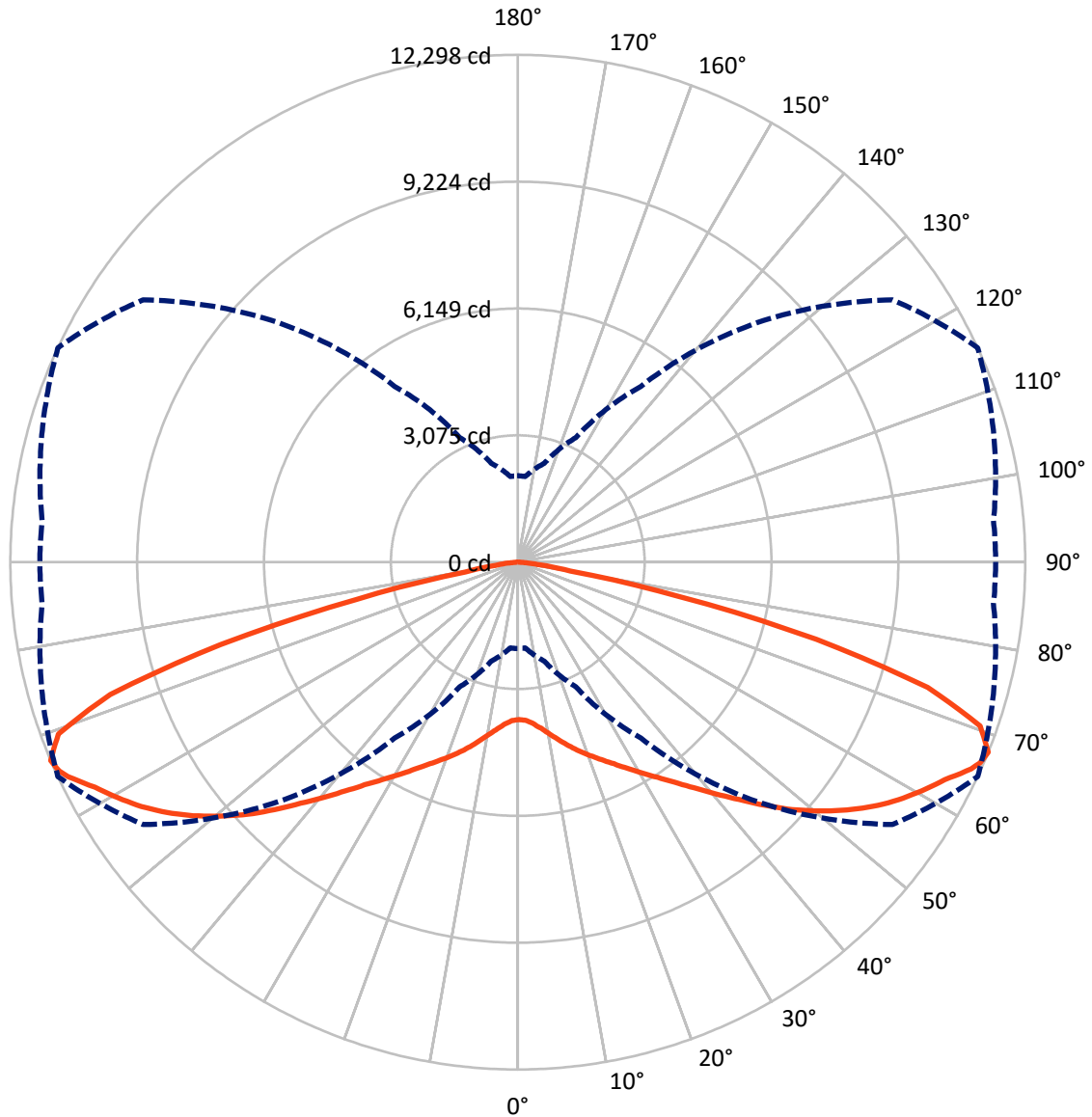
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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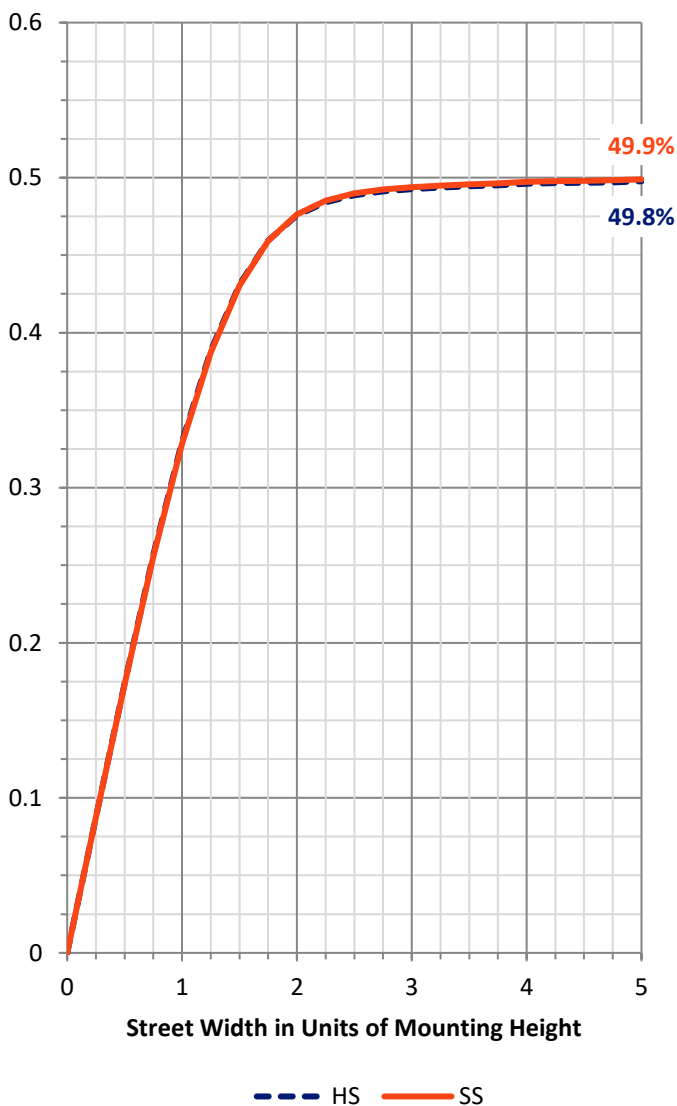
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18200.5	0.0	18200.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18200.5	0.0	18200.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36401.0	0.0	36401.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	376.0	1.0
10°-20°	1258.6	3.5
20°-30°	2461.8	6.8
30°-40°	4187.2	11.5
40°-50°	6627.1	18.2
50°-60°	8787.4	24.1
60°-70°	8289.2	22.8
70°-80°	4097.8	11.3
80°-90°	315.8	0.9
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°	36401.0	100.0
0°-180°	36401.0	100.0

**Coefficient of Utilization**



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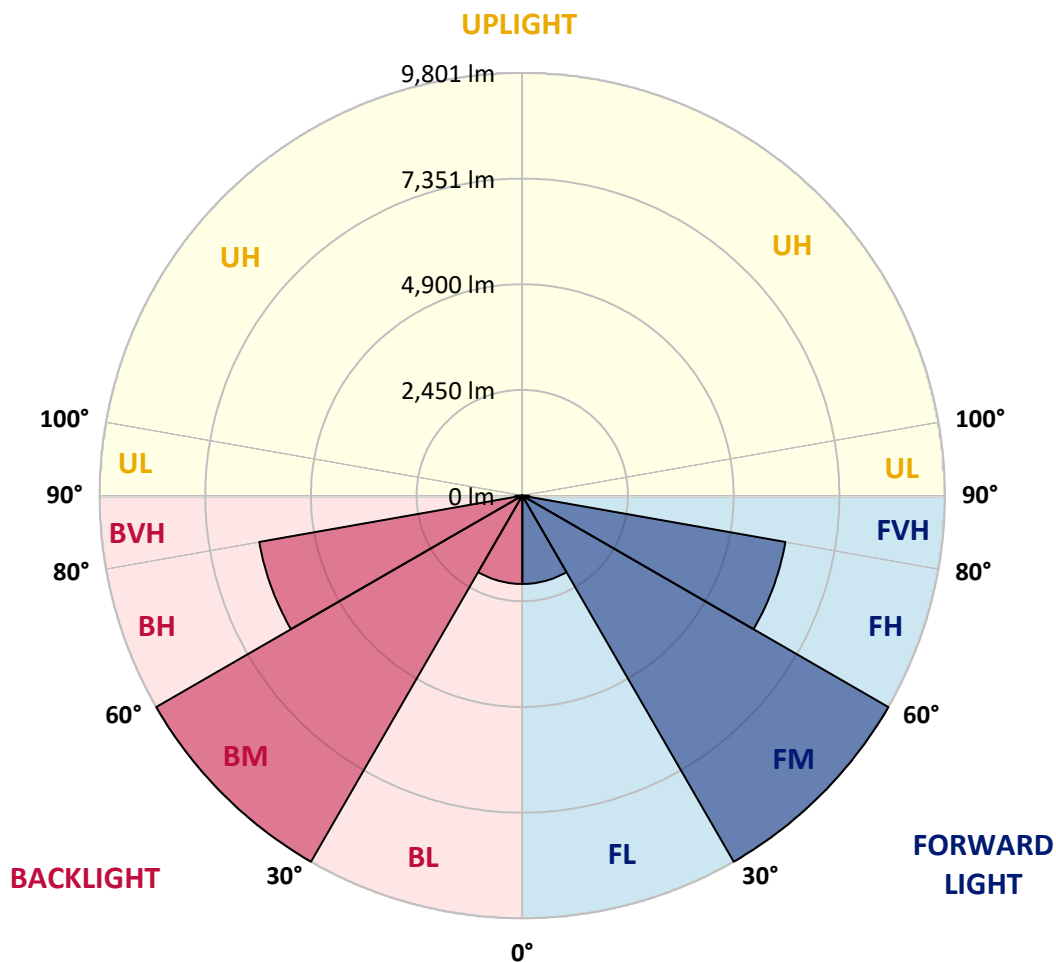
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2048.2	5.6			
FM	(30°-60°)	9800.9	26.9			
FH	(60°-80°)	6193.5	17.0			G3/7500
FVH	(80°-90°)	157.9	0.4			G2/225
BL	(0°-30°)	2048.2	5.6	B3/2500		
BM	(30°-60°)	9800.9	26.9	B5		
BH	(60°-80°)	6193.5	17.0	B5		G5
BVH	(80°-90°)	157.9	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7
2.5°	3793.2	3797.1	3801.0	3806.8	3814.6	3826.3	3834.1	3840.0	3855.6	3857.5	3855.6
5°	3779.5	3783.4	3793.2	3810.7	3836.1	3871.2	3898.5	3931.6	3957.0	3974.6	3970.7
7.5°	3777.6	3785.4	3801.0	3838.0	3886.8	3947.2	4009.7	4066.2	4115.0	4154.0	4148.1
10°	3808.8	3818.5	3843.9	3898.5	3974.6	4062.3	4150.1	4233.9	4304.1	4354.8	4372.4
12.5°	3861.4	3869.2	3916.0	3998.0	4107.2	4216.4	4315.8	4419.2	4516.7	4602.5	4602.5
15°	3953.1	3966.8	4025.3	4144.2	4278.8	4405.6	4507.0	4616.2	4721.5	4819.0	4848.3
17.5°	4079.9	4099.4	4187.1	4339.2	4510.9	4627.9	4723.4	4813.1	4904.8	4998.4	5012.1
20°	4253.4	4272.9	4389.9	4573.3	4776.1	4916.5	4980.9	5002.3	5047.2	5136.9	5148.6
22.5°	4489.4	4508.9	4639.6	4846.3	5072.5	5224.6	5251.9	5201.2	5189.5	5259.7	5267.5
25°	4756.6	4774.1	4924.3	5146.6	5380.7	5546.4	5538.6	5413.8	5343.6	5386.5	5398.2
27.5°	5056.9	5082.3	5234.4	5464.5	5718.1	5864.3	5840.9	5659.5	5509.4	5501.6	5505.5
30°	5441.1	5468.4	5612.7	5833.1	6082.7	6217.3	6168.6	5924.8	5692.7	5614.7	5614.7
32.5°	5846.8	5915.0	6061.3	6291.4	6486.4	6583.9	6509.8	6217.3	5909.2	5800.0	5794.1
35°	6375.3	6412.3	6556.6	6780.9	6927.2	7003.2	6860.9	6546.9	6192.0	6063.2	6045.7
37.5°	6892.1	6923.3	7091.0	7305.5	7483.0	7479.1	7286.0	6938.9	6543.0	6398.7	6387.0
40°	7420.6	7453.7	7644.9	7841.8	8019.3	8003.7	7769.7	7381.6	6960.3	6798.5	6829.7
42.5°	7878.9	7916.0	8132.4	8413.3	8573.2	8569.3	8298.2	7861.3	7422.5	7278.2	7305.5
45°	8296.2	8329.4	8581.0	8902.8	9136.8	9166.0	8869.6	8407.4	7956.9	7771.6	7779.4
47.5°	8590.7	8653.1	8916.4	9285.0	9602.9	9706.3	9415.7	8963.2	8444.5	8251.4	8263.1
50°	8815.0	8854.0	9140.7	9560.0	9961.7	10176.3	9942.2	9478.1	8932.0	8727.2	8754.5
52.5°	8842.3	8889.1	9201.1	9684.8	10199.7	10525.3	10410.3	9981.2	9429.3	9218.7	9277.2
55°	8620.0	8647.3	9019.8	9606.8	10293.3	10784.7	10814.0	10449.3	9903.2	9743.3	9782.3
57.5°	7986.2	8056.4	8528.3	9242.1	10164.6	10923.2	11116.3	10874.4	10383.0	10225.0	10287.4
60°	6946.7	7016.9	7490.8	8395.7	9679.0	10858.8	11365.9	11250.8	10817.9	10691.1	10724.3
62.5°	5443.1	5437.2	6024.2	7133.9	8713.6	10542.9	11551.2	11613.6	11246.9	11087.0	11137.7
65°	3528.0	3545.5	4113.0	5308.5	7256.8	9739.4	11592.1	12075.8	11668.2	11426.3	11463.4
66°	2837.6	2890.2	3371.9	4473.8	6513.7	9212.8	11469.3	12212.3	11796.9	11504.4	11521.9
67.5°	2094.5	2084.8	2480.7	3331.0	5201.2	8212.4	11085.1	12298.1	11943.2	11574.6	11582.4
70°	1195.5	1193.5	1334.0	1829.3	3057.9	5782.4	9343.5	11886.6	12239.6	11828.1	11806.6
72.5°	873.7	867.8	887.4	1010.2	1491.9	2919.5	6445.5	10388.8	12087.5	11787.1	11726.7
75°	733.3	729.4	725.5	741.1	836.6	1322.3	3420.7	7473.2	10488.3	11063.6	11001.2
77.5°	598.7	598.7	600.7	596.8	600.7	696.2	1417.8	4005.8	6387.0	7130.0	7303.6
80°	468.1	466.1	499.3	485.6	454.4	446.6	628.0	1289.1	2119.9	2108.2	1739.6
82.5°	345.2	321.8	380.3	370.5	335.4	284.7	366.6	550.0	707.9	460.3	341.3
85°	218.4	216.5	269.1	245.7	204.8	134.6	175.5	236.0	292.5	177.5	144.3
87.5°	39.0	37.1	85.8	62.4	62.4	39.0	48.8	64.4	95.6	66.3	48.8
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)