

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: P529105

Luminaire Tested: **GALN-SA4B-730-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529105  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-730-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12303 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

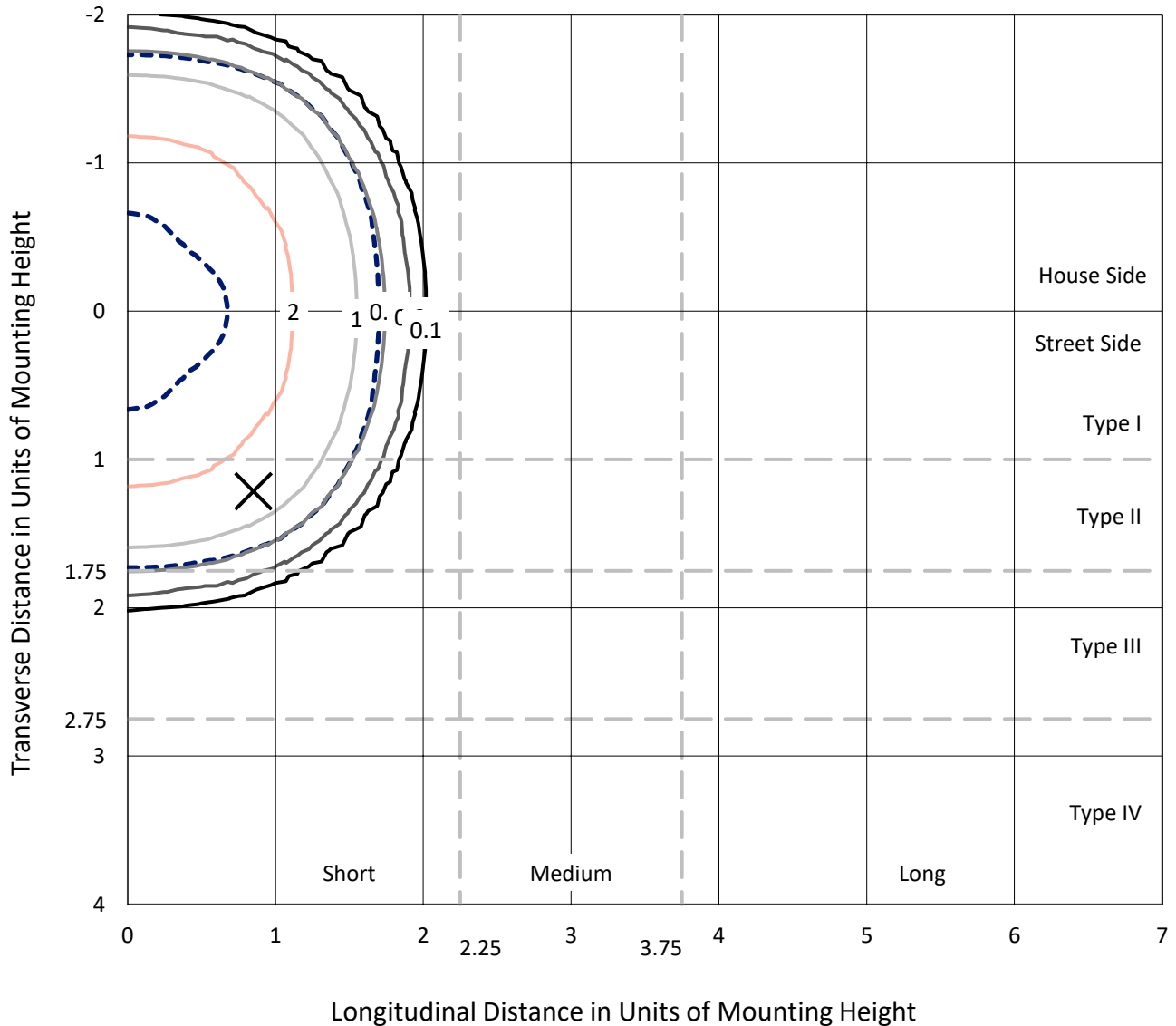
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P529105  
 CATALOG NUMBER: GALN-SA4B-730-U-5MQ-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

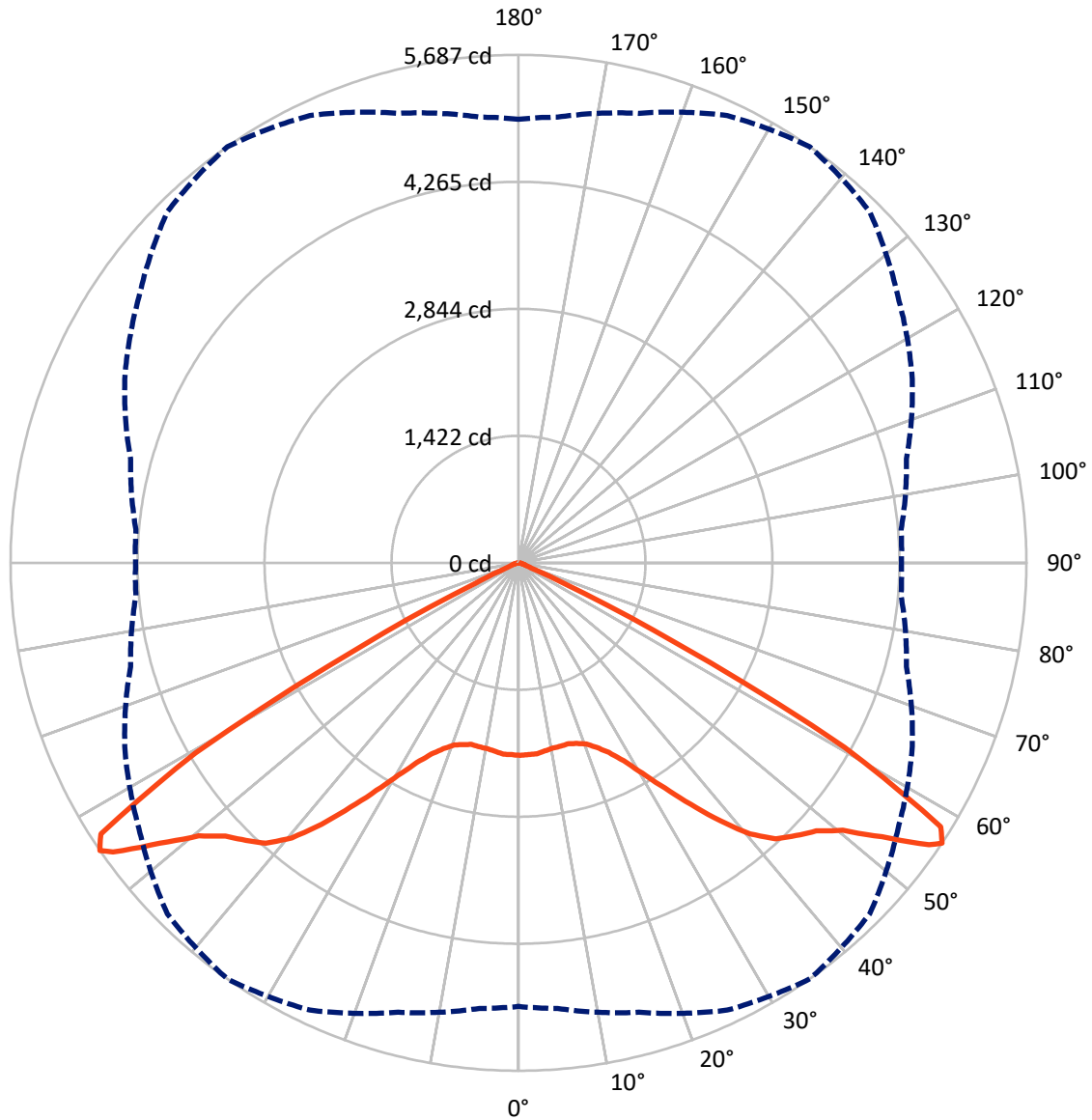
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type V - Short - N/A

REPORT NUMBER: P529105  
CATALOG NUMBER: GALN-SA4B-730-U-5MQ-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P529105  
 CATALOG NUMBER: GALN-SA4B-730-U-5MQ-GRSBK

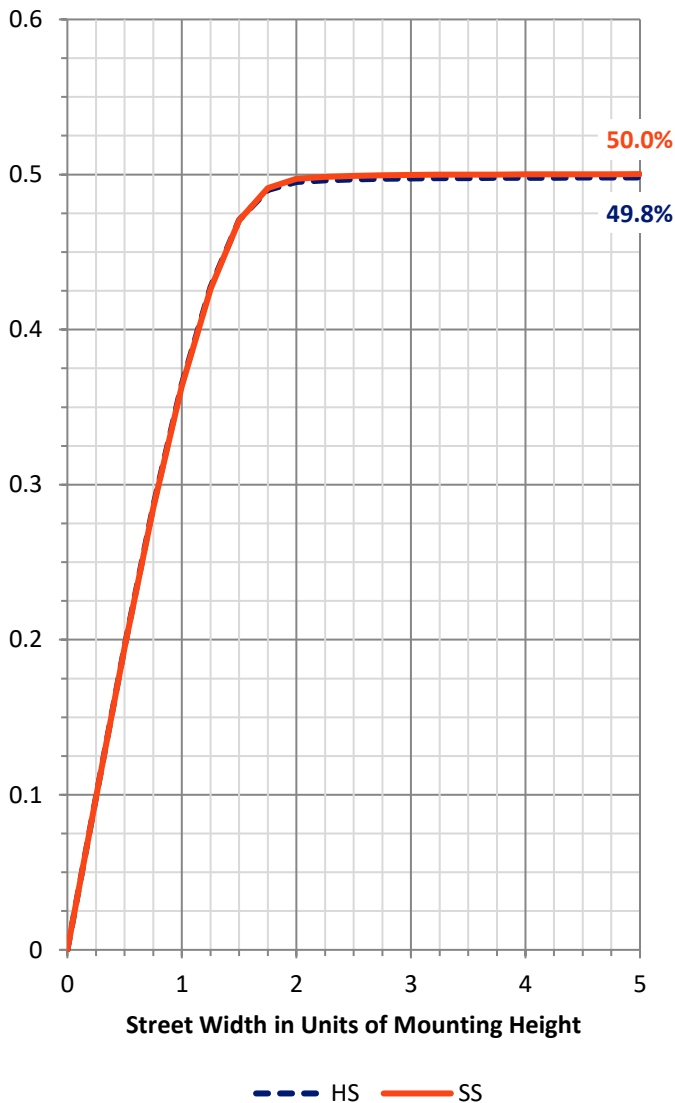
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6151.5	0.0	6151.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6151.5	0.0	6151.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12303.0	0.0	12303.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.6	1.6
10°-20°	591.5	4.8
20°-30°	1071.2	8.7
30°-40°	1986.3	16.1
40°-50°	3260.4	26.5
50°-60°	4200.3	34.1
60°-70°	925.7	7.5
70°-80°	53.7	0.4
80°-90°	11.3	0.1
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°	12303.0	100.0
0°-180°	12303.0	100.0



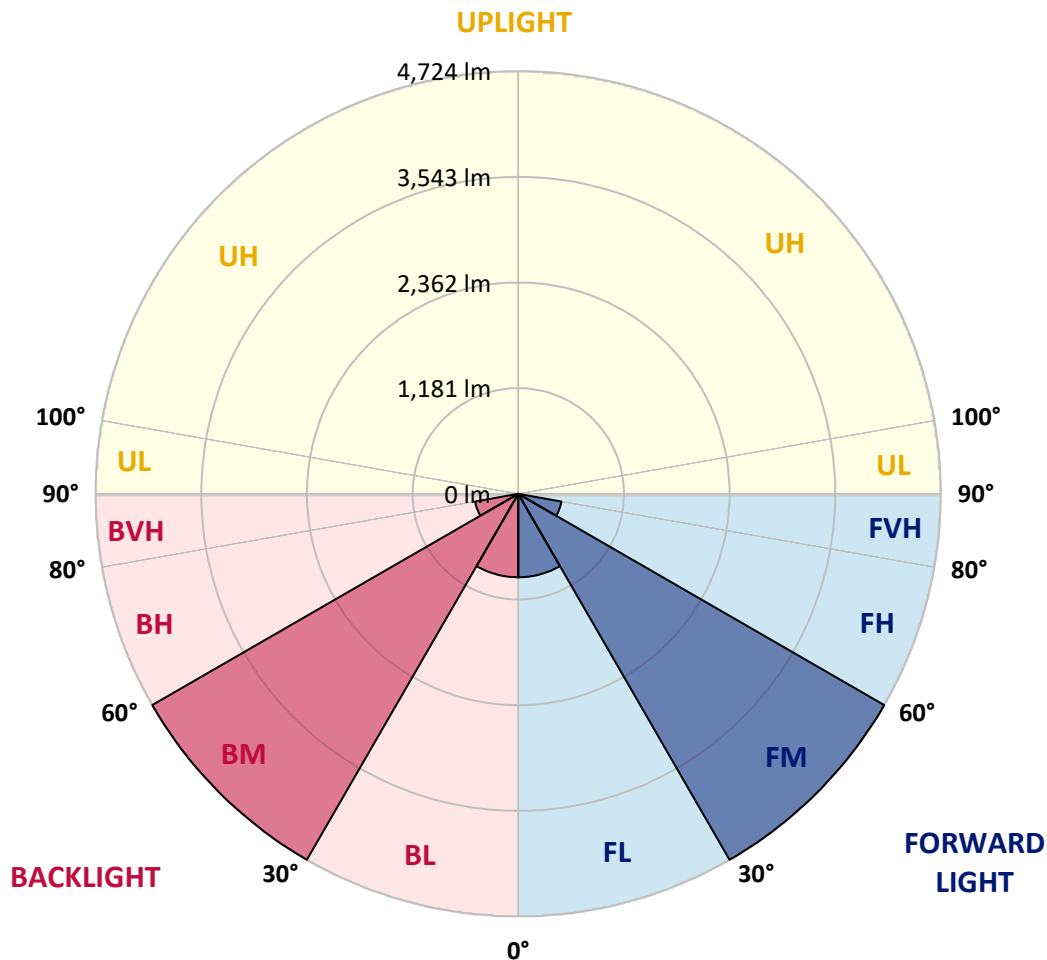
REPORT NUMBER: P529105  
 CATALOG NUMBER: GALN-SA4B-730-U-5MQ-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	932.6	7.6			
FM (30°-60°)	4723.5	38.4			
FH (60°-80°)	489.7	4.0			G0/660
FVH (80°-90°)	5.7	0.0			G0/10
BL (0°-30°)	932.6	7.6	B2/1000		
BM (30°-60°)	4723.5	38.4	B3/5000		
BH (60°-80°)	489.7	4.0	B1/500		G0/660
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G0**

Type V Short





REPORT NUMBER: P529105

CATALOG NUMBER: GALN-SA4B-730-U-5MQ-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8
2.5°	2160.2	2160.2	2162.4	2164.7	2149.1	2142.4	2144.6	2140.1	2137.9	2144.6	2144.6
5°	2153.5	2153.5	2146.8	2149.1	2149.1	2129.0	2129.0	2133.5	2133.5	2120.1	2115.6
7.5°	2135.7	2131.2	2122.3	2133.5	2126.8	2126.8	2111.2	2100.0	2095.6	2104.5	2095.6
10°	2097.8	2100.0	2108.9	2113.4	2108.9	2122.3	2095.6	2080.0	2064.3	2057.7	2057.7
12.5°	2080.0	2093.3	2080.0	2091.1	2106.7	2095.6	2080.0	2068.8	2046.5	2037.6	2037.6
15°	2077.7	2086.6	2091.1	2106.7	2100.0	2104.5	2073.3	2059.9	2026.4	2010.8	2004.2
17.5°	2075.5	2086.6	2093.3	2122.3	2126.8	2129.0	2104.5	2064.3	2035.4	2019.8	2004.2
20°	2100.0	2104.5	2117.9	2146.8	2164.7	2195.9	2151.3	2108.9	2046.5	2028.7	2022.0
22.5°	2131.2	2153.5	2166.9	2198.1	2244.9	2271.7	2213.7	2160.2	2095.6	2073.3	2046.5
25°	2231.5	2227.1	2249.4	2314.0	2351.9	2372.0	2325.2	2247.2	2162.4	2135.7	2140.1
27.5°	2356.4	2360.8	2380.9	2452.2	2508.0	2539.2	2483.5	2380.9	2298.4	2253.8	2249.4
30°	2519.1	2514.7	2537.0	2632.8	2733.1	2780.0	2681.9	2561.5	2481.2	2423.3	2436.6
32.5°	2690.8	2693.0	2755.4	2842.4	3005.1	3096.5	2938.2	2791.1	2670.7	2630.6	2610.5
35°	2944.9	2956.1	3005.1	3138.9	3319.5	3437.6	3263.7	3087.6	2949.4	2875.8	2884.7
37.5°	3259.3	3248.1	3330.6	3475.5	3665.0	3751.9	3604.8	3404.2	3263.7	3214.7	3245.9
40°	3593.7	3604.8	3647.2	3778.7	3990.5	4048.4	3830.0	3720.7	3598.1	3573.6	3611.5
42.5°	3928.1	3921.4	3952.6	4070.7	4224.6	4184.4	4055.1	3990.5	3903.5	3854.5	3905.8
45°	4173.3	4162.1	4220.1	4300.4	4356.1	4280.3	4222.3	4200.0	4155.4	4101.9	4148.8
47.5°	4411.8	4402.9	4458.6	4480.9	4485.4	4385.1	4396.2	4436.3	4324.9	4213.4	4266.9
50°	4614.7	4599.1	4668.2	4717.2	4706.1	4545.6	4585.7	4545.6	4371.7	4240.2	4220.1
52.5°	4953.5	4960.2	5033.8	5123.0	5096.2	4962.5	4904.5	4721.7	4498.8	4380.6	4311.5
55°	5167.6	5134.1	5261.2	5544.3	5575.5	5437.3	5180.9	4911.2	4576.8	4431.9	4414.0
56°	4966.9	5009.3	5209.9	5526.5	5687.0	5559.9	5187.6	4864.4	4496.5	4300.4	4287.0
57.5°	4456.4	4434.1	4706.1	5138.6	5575.5	5522.0	5004.8	4530.0	4101.9	3881.2	3854.5
60°	2773.3	2837.9	3076.5	3611.5	4195.6	4222.3	3709.6	3301.6	2802.3	2606.1	2652.9
62.5°	1085.7	1029.9	1179.3	1578.4	1979.6	2068.8	1874.9	1558.3	1279.6	1085.7	1072.3
65°	251.9	245.2	276.4	381.2	532.8	617.5	586.3	421.3	309.9	294.3	272.0
67.5°	142.7	142.7	136.0	136.0	149.4	158.3	151.6	149.4	156.1	162.7	160.5
70°	100.3	98.1	93.6	95.9	91.4	91.4	98.1	109.2	118.2	118.2	120.4
72.5°	60.2	60.2	60.2	66.9	66.9	66.9	73.6	82.5	84.7	82.5	80.3
75°	26.8	26.8	31.2	37.9	42.4	44.6	51.3	55.7	60.2	55.7	51.3
77.5°	6.7	6.7	11.1	15.6	20.1	24.5	33.4	40.1	42.4	40.1	33.4
80°	2.2	2.2	4.5	11.1	20.1	24.5	33.4	35.7	37.9	33.4	26.8
82.5°	2.2	2.2	4.5	11.1	15.6	20.1	26.8	31.2	33.4	29.0	26.8
85°	0.0	2.2	4.5	8.9	13.4	17.8	17.8	13.4	11.1	6.7	8.9
87.5°	0.0	0.0	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)