

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: P454136

Luminaire Tested: **GALN-SA5B-727-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454136  
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-SA5B-727-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24942 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

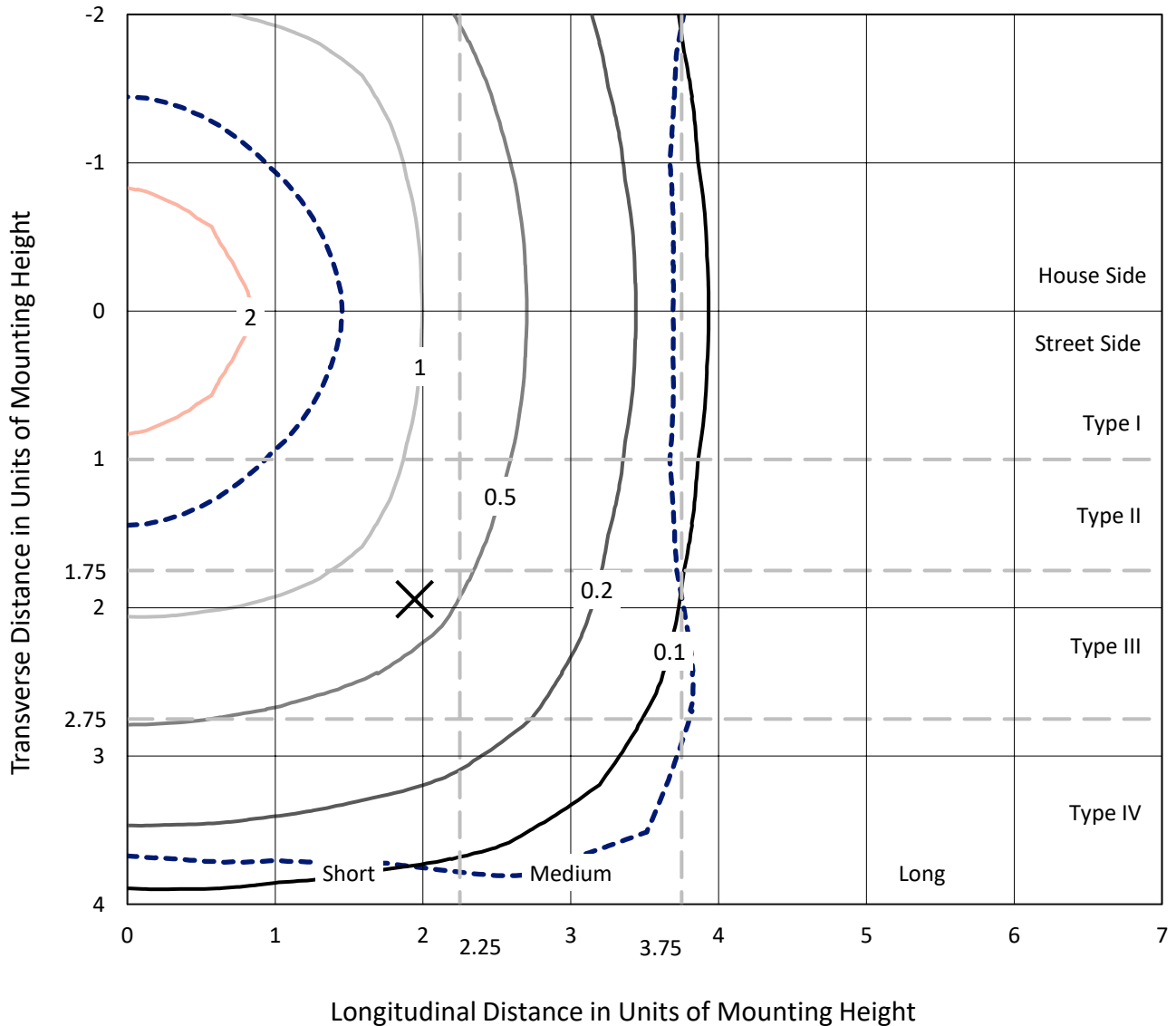
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454136  
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### Iso-Footcandle Lines of Horizontal Illumination

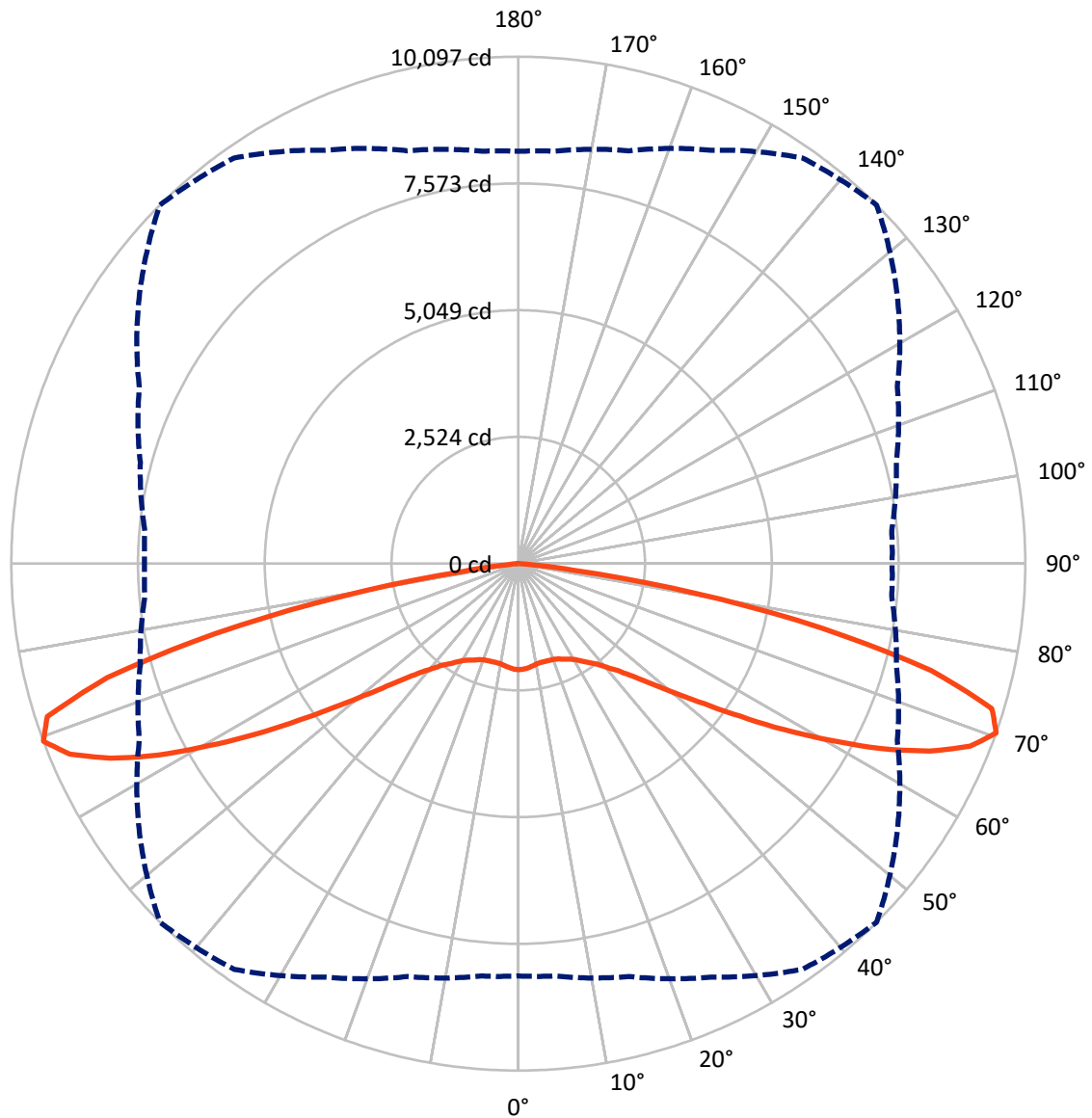
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P454136  
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### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SA5B-727-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12471.0	0.0	12471.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12471.0	0.0	12471.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24942.0	0.0	24942.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.5	0.8
10°-20°	578.1	2.3
20°-30°	985.0	3.9
30°-40°	1526.7	6.1
40°-50°	2569.7	10.3
50°-60°	4675.5	18.7
60°-70°	7915.5	31.7
70°-80°	6126.9	24.6
80°-90°	367.1	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°	24942.0	100.0
0°-180°	24942.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P454136

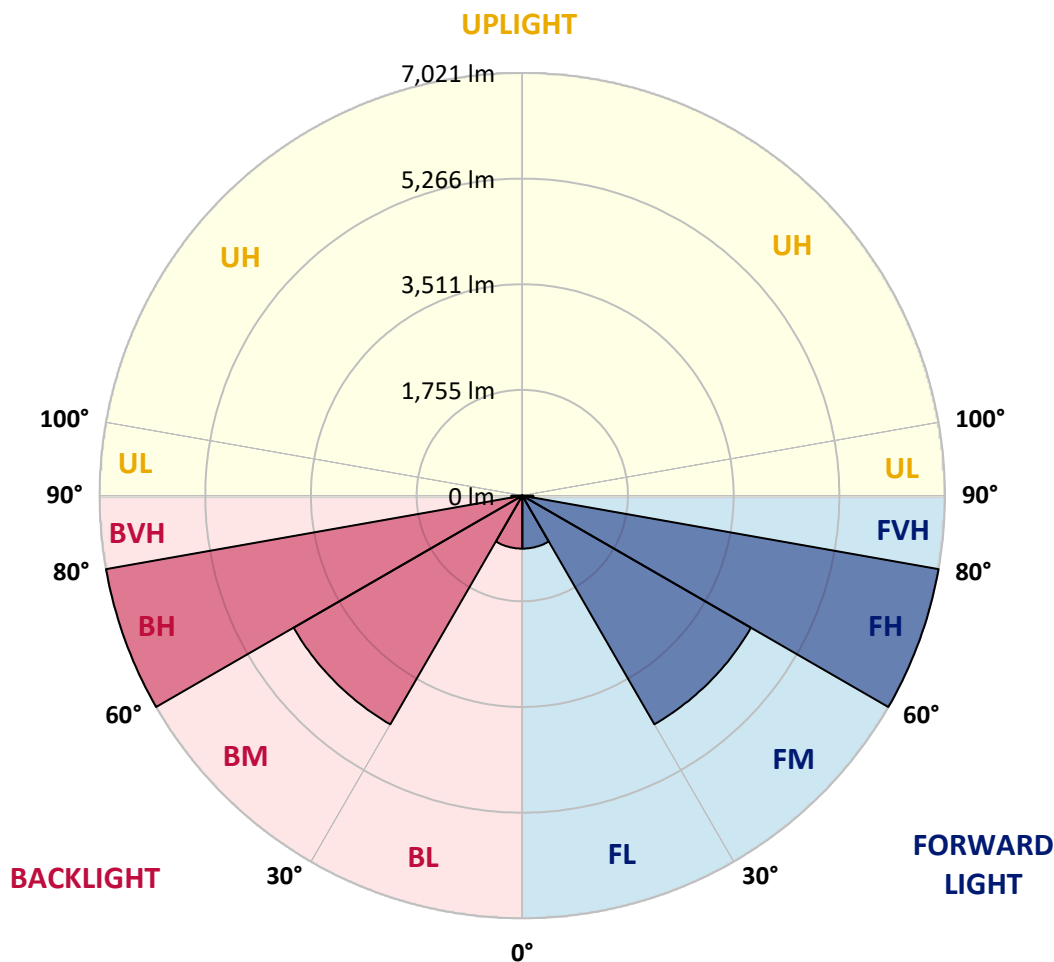
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	880.3	3.5			
FM (30°-60°)	4386.0	17.6			
FH (60°-80°)	7021.2	28.1			G3/7500
FVH (80°-90°)	183.6	0.7			G2/225
BL (0°-30°)	880.3	3.5	B2/1000		
BM (30°-60°)	4386.0	17.6	B3/5000		
BH (60°-80°)	7021.2	28.1	B5		G3/7500
BVH (80°-90°)	183.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6
2.5°	2106.4	2107.7	2107.7	2105.1	2103.7	2103.7	2102.4	2102.4	2106.4	2107.7	2109.0
5°	2087.9	2087.9	2087.9	2086.6	2084.0	2084.0	2081.3	2081.3	2082.7	2086.6	2084.0
7.5°	2062.9	2065.5	2065.5	2060.3	2056.3	2056.3	2055.0	2056.3	2057.6	2061.6	2060.3
10°	2055.0	2056.3	2049.7	2040.5	2033.9	2030.0	2031.3	2033.9	2040.5	2043.1	2044.5
12.5°	2060.3	2060.3	2048.4	2035.2	2023.4	2018.1	2016.8	2026.0	2037.9	2045.8	2048.4
15°	2066.9	2064.2	2049.7	2032.6	2020.8	2019.4	2018.1	2024.7	2041.8	2057.6	2059.0
17.5°	2070.8	2069.5	2051.0	2030.0	2023.4	2023.4	2022.1	2027.3	2045.8	2065.5	2066.9
20°	2084.0	2080.0	2059.0	2036.6	2031.3	2033.9	2030.0	2036.6	2056.3	2080.0	2085.3
22.5°	2110.3	2106.4	2085.3	2062.9	2060.3	2060.3	2059.0	2065.5	2086.6	2111.6	2115.6
25°	2141.9	2138.0	2118.2	2102.4	2105.1	2110.3	2107.7	2109.0	2126.1	2147.2	2153.8
27.5°	2184.1	2177.5	2160.4	2147.2	2155.1	2155.1	2155.1	2153.8	2164.3	2184.1	2190.7
30°	2235.5	2232.8	2214.4	2213.1	2219.7	2213.1	2213.1	2214.4	2215.7	2234.2	2240.7
32.5°	2302.7	2297.4	2288.2	2285.5	2304.0	2309.2	2290.8	2273.7	2282.9	2301.3	2305.3
35°	2413.3	2405.4	2392.2	2377.7	2392.2	2417.3	2377.7	2364.6	2388.3	2413.3	2415.9
37.5°	2563.5	2559.5	2538.5	2512.1	2510.8	2537.1	2496.3	2495.0	2539.8	2570.1	2574.0
40°	2751.9	2755.8	2729.5	2704.4	2691.3	2712.3	2680.7	2692.6	2736.1	2770.3	2767.7
42.5°	3016.6	3002.1	2961.3	2937.6	2923.1	2915.2	2907.3	2925.7	2974.5	3011.4	3040.3
45°	3326.2	3320.9	3269.6	3240.6	3209.0	3197.1	3194.5	3227.4	3286.7	3331.5	3335.4
47.5°	3676.6	3664.8	3631.8	3601.5	3589.7	3575.2	3562.0	3587.0	3646.3	3677.9	3687.1
50°	4037.6	4040.2	4040.2	4034.9	4046.8	4049.4	4013.8	4023.1	4056.0	4053.4	4050.7
52.5°	4449.9	4464.4	4532.9	4539.4	4596.1	4634.3	4569.7	4531.5	4519.7	4448.6	4453.8
55°	4934.6	4947.8	5050.6	5153.3	5306.1	5370.7	5235.0	5116.4	5032.1	4924.1	4929.4
57.5°	5539.3	5545.9	5643.4	5840.9	6083.3	6234.8	5996.4	5761.9	5590.7	5487.9	5447.1
60°	6190.0	6196.6	6338.9	6580.0	6956.7	7141.1	6846.1	6462.7	6246.7	6089.9	6100.5
62.5°	6971.2	6997.5	7125.3	7457.3	7914.4	8121.2	7730.0	7217.5	6925.1	6730.1	6738.0
65°	7807.7	7852.5	7992.1	8357.0	8778.5	9001.2	8521.7	7930.2	7566.6	7328.2	7353.2
67.5°	8350.4	8389.9	8591.5	8994.6	9520.2	9704.6	9085.5	8396.5	7942.1	7657.5	7604.8
70°	8212.1	8245.0	8513.8	9085.5	9864.0	10097.2	9219.8	8328.0	7793.2	7465.2	7444.1
72.5°	7249.1	7180.6	7573.2	8393.9	9471.4	9862.7	8797.0	7606.1	6933.0	6595.8	6556.2
75°	4804.2	4953.1	5532.7	6499.6	8013.2	8498.0	7508.7	6107.0	5260.0	4979.4	4936.0
77.5°	1605.8	1720.4	2235.5	3684.5	5462.9	6191.4	5470.8	3994.1	2825.6	2276.3	2286.8
80°	425.5	420.2	544.0	1013.0	2360.6	3585.7	2747.9	1352.9	740.3	536.1	508.5
82.5°	152.8	171.3	220.0	280.6	625.7	1114.4	786.4	379.4	278.0	205.5	198.9
85°	67.2	65.9	94.8	112.0	156.8	208.1	184.4	160.7	141.0	93.5	86.9
87.5°	14.5	14.5	22.4	17.1	27.7	27.7	34.3	40.8	42.2	27.7	22.4
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)