

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: P455122

Luminaire Tested: **GALN-SA6B-740-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455122  
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-SA6B-740-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 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: 35315 lumens  
Efficiency: N/A  
Efficacy: 145.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

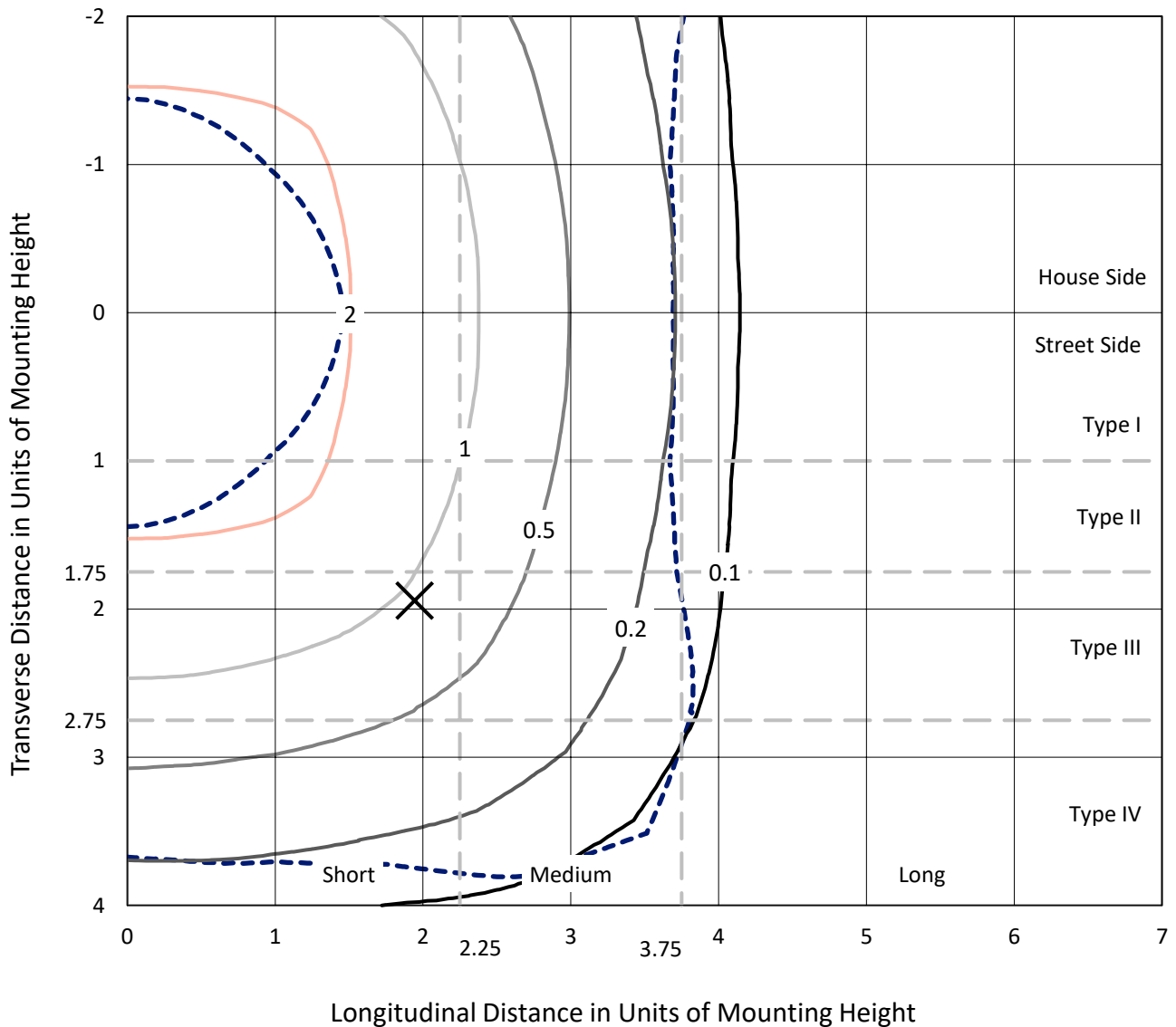
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

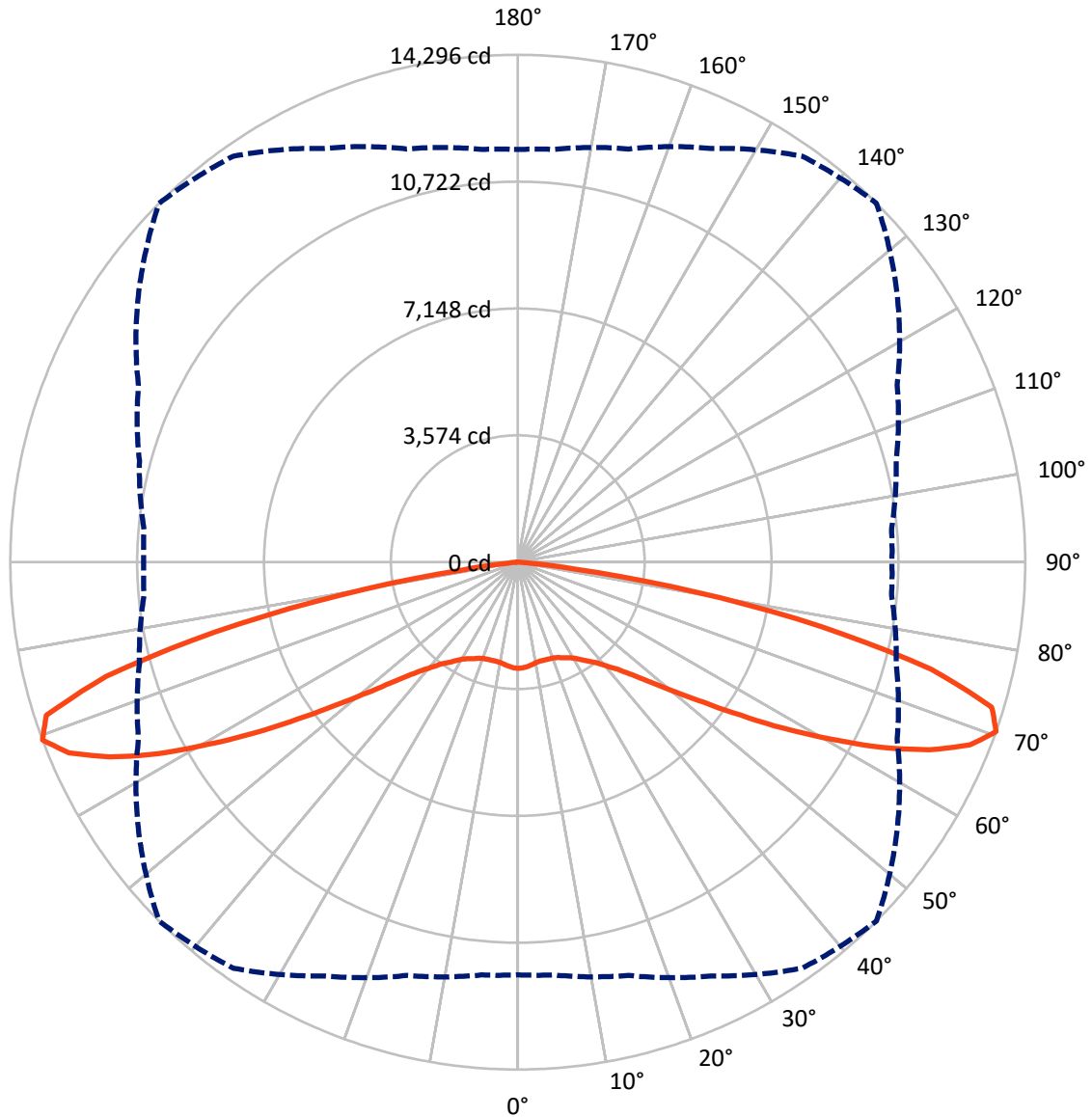
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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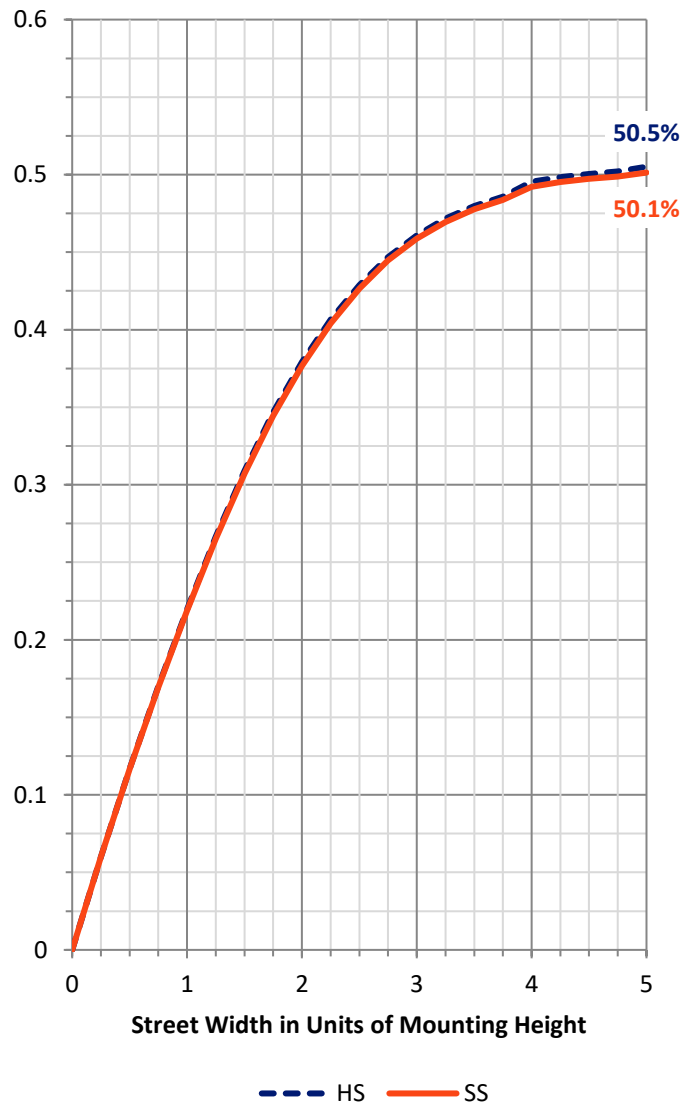
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17657.5	0.0	17657.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17657.5	0.0	17657.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35315.0	0.0	35315.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.6	0.8
10°-20°	818.6	2.3
20°-30°	1394.6	3.9
30°-40°	2161.7	6.1
40°-50°	3638.4	10.3
50°-60°	6619.9	18.7
60°-70°	11207.4	31.7
70°-80°	8675.0	24.6
80°-90°	519.8	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°	35315.0	100.0
0°-180°	35315.0	100.0



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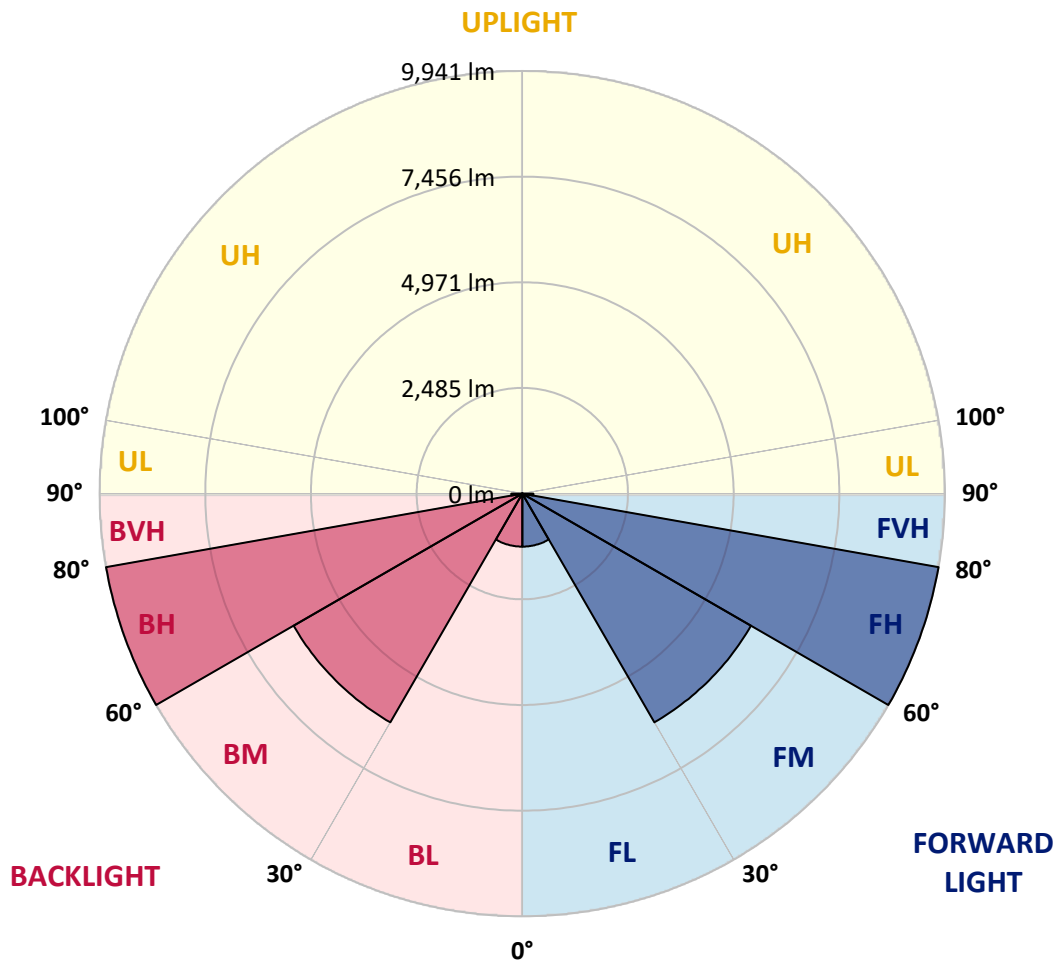
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1246.4	3.5			
FM (30°-60°)	6210.0	17.6			
FH (60°-80°)	9941.2	28.1			G4/12000
FVH (80°-90°)	259.9	0.7			G3/500
BL (0°-30°)	1246.4	3.5	B3/2500		
BM (30°-60°)	6210.0	17.6	B4/8500		
BH (60°-80°)	9941.2	28.1	B5		G4/12000
BVH (80°-90°)	259.9	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-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2989.8	2989.8	2989.8	2989.8	2989.8	2989.8	2989.8	2989.8	2989.8	2989.8	2989.8
2.5°	2982.4	2984.3	2984.3	2980.5	2978.7	2978.7	2976.8	2976.8	2982.4	2984.3	2986.1
5°	2956.3	2956.3	2956.3	2954.4	2950.7	2950.7	2946.9	2946.9	2948.8	2954.4	2950.7
7.5°	2920.8	2924.6	2924.6	2917.1	2911.5	2911.5	2909.6	2911.5	2913.4	2919.0	2917.1
10°	2909.6	2911.5	2902.2	2889.1	2879.8	2874.2	2876.1	2879.8	2889.1	2892.9	2894.7
12.5°	2917.1	2917.1	2900.3	2881.7	2864.9	2857.4	2855.6	2868.6	2885.4	2896.6	2900.3
15°	2926.4	2922.7	2902.2	2877.9	2861.2	2859.3	2857.4	2866.7	2891.0	2913.4	2915.2
17.5°	2932.0	2930.2	2904.0	2874.2	2864.9	2864.9	2863.0	2870.5	2896.6	2924.6	2926.4
20°	2950.7	2945.1	2915.2	2883.5	2876.1	2879.8	2874.2	2883.5	2911.5	2945.1	2952.5
22.5°	2988.0	2982.4	2952.5	2920.8	2917.1	2917.1	2915.2	2924.6	2954.4	2989.8	2995.4
25°	3032.7	3027.2	2999.2	2976.8	2980.5	2988.0	2984.3	2986.1	3010.4	3040.2	3049.5
27.5°	3092.4	3083.1	3058.9	3040.2	3051.4	3051.4	3051.4	3049.5	3064.5	3092.4	3101.8
30°	3165.2	3161.4	3135.3	3133.5	3142.8	3133.5	3133.5	3135.3	3137.2	3163.3	3172.6
32.5°	3260.3	3252.8	3239.8	3236.0	3262.2	3269.6	3243.5	3219.3	3232.3	3258.4	3264.0
35°	3417.0	3405.8	3387.1	3366.6	3387.1	3422.6	3366.6	3348.0	3381.5	3417.0	3420.7
37.5°	3629.6	3624.0	3594.2	3556.9	3555.0	3592.3	3534.5	3532.6	3596.0	3638.9	3644.5
40°	3896.3	3901.9	3864.6	3829.2	3810.5	3840.4	3795.6	3812.4	3873.9	3922.4	3918.7
42.5°	4271.2	4250.7	4192.9	4159.3	4138.8	4127.6	4116.4	4142.5	4211.5	4263.7	4304.8
45°	4709.5	4702.1	4629.3	4588.3	4543.5	4526.7	4523.0	4569.6	4653.6	4717.0	4722.6
47.5°	5205.7	5188.9	5142.2	5099.3	5082.6	5062.0	5043.4	5078.8	5162.8	5207.5	5220.6
50°	5716.7	5720.4	5720.4	5713.0	5729.8	5733.5	5683.1	5696.2	5742.8	5739.1	5735.4
52.5°	6300.5	6321.0	6418.0	6427.3	6507.5	6561.6	6470.2	6416.1	6399.4	6298.6	6306.1
55°	6986.9	7005.5	7151.0	7296.5	7512.9	7604.2	7412.1	7244.3	7124.9	6972.0	6979.4
57.5°	7843.0	7852.3	7990.3	8270.1	8613.3	8827.8	8490.2	8158.2	7915.7	7770.2	7712.4
60°	8764.4	8773.7	8975.1	9316.5	9849.9	10111.0	9693.2	9150.5	8844.6	8622.6	8637.5
62.5°	9870.4	9907.7	10088.6	10558.7	11205.9	11498.7	10944.7	10219.2	9805.1	9529.1	9540.3
65°	11054.8	11118.2	11315.9	11832.6	12429.4	12744.6	12065.7	11228.2	10713.5	10375.9	10411.3
67.5°	11823.2	11879.2	12164.6	12735.3	13479.5	13740.6	12864.0	11888.5	11245.0	10842.2	10767.6
70°	11627.4	11674.0	12054.5	12864.0	13966.3	14296.4	13054.2	11791.5	11034.3	10569.8	10540.0
72.5°	10264.0	10167.0	10722.8	11884.8	13410.5	13964.4	12455.5	10769.4	9816.3	9338.8	9282.9
75°	6802.2	7013.0	7833.7	9202.7	11345.8	12032.1	10631.4	8646.9	7447.6	7050.3	6988.7
77.5°	2273.6	2435.9	3165.2	5216.8	7734.8	8766.2	7746.0	5655.2	4000.8	3223.0	3237.9
80°	602.4	595.0	770.3	1434.3	3342.4	5077.0	3890.7	1915.5	1048.2	759.1	720.0
82.5°	216.4	242.5	311.5	397.3	885.9	1577.9	1113.5	537.2	393.5	291.0	281.6
85°	95.1	93.3	134.3	158.5	222.0	294.7	261.1	227.5	199.6	132.4	123.1
87.5°	20.5	20.5	31.7	24.2	39.2	39.2	48.5	57.8	59.7	39.2	31.7
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)