

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: P459095

Luminaire Tested: **GALN-SA6A-735-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459095  
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-SA6A-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26439 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 - G3

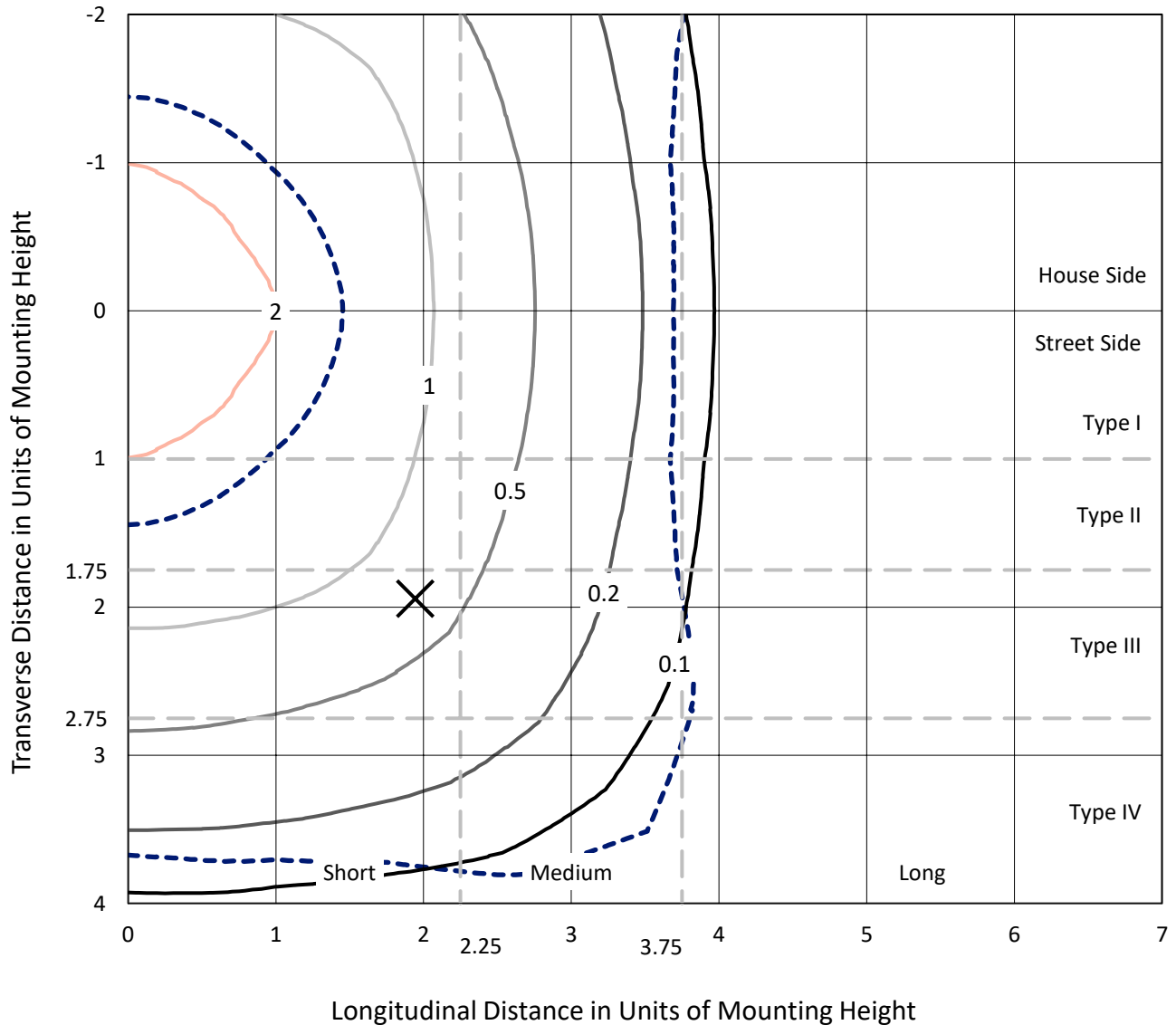
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P459095  
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### Iso-Footcandle Lines of Horizontal Illumination

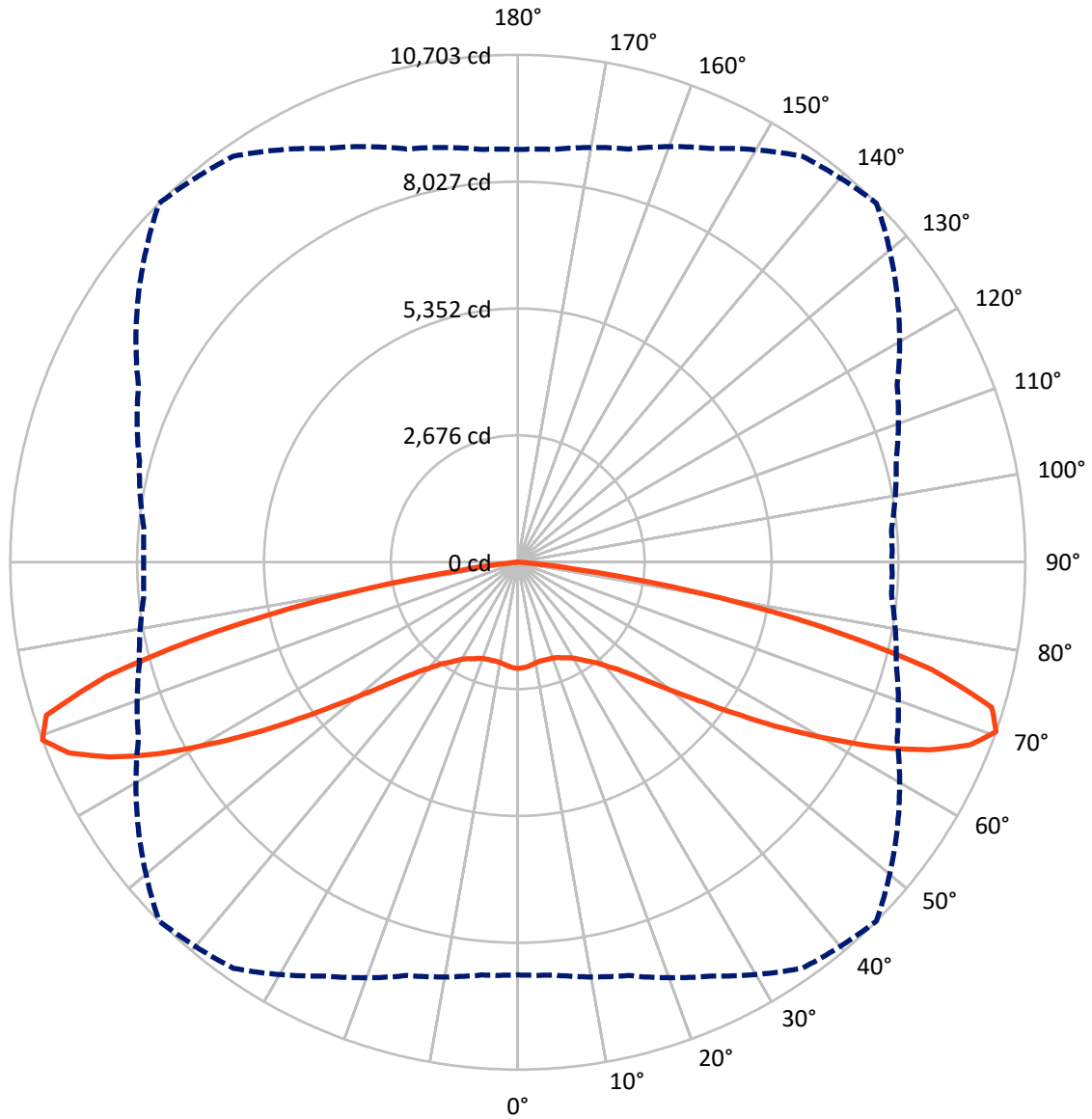
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - N/A

REPORT NUMBER: P459095  
CATALOG NUMBER: GALN-SA6A-735-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P459095

CATALOG NUMBER: GALN-SA6A-735-U-5WQ

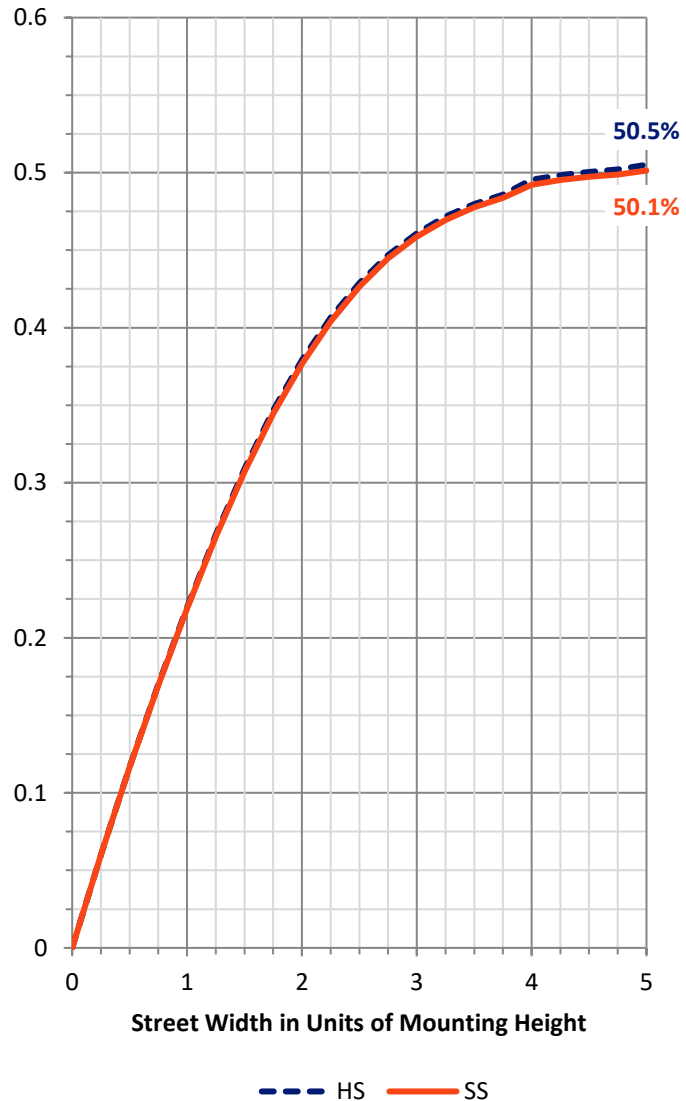
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13219.5	0.0	13219.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13219.5	0.0	13219.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26439.0	0.0	26439.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.3	0.8
10°-20°	612.8	2.3
20°-30°	1044.1	3.9
30°-40°	1618.4	6.1
40°-50°	2723.9	10.3
50°-60°	4956.1	18.7
60°-70°	8390.5	31.7
70°-80°	6494.6	24.6
80°-90°	389.2	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°	26439.0	100.0
0°-180°	26439.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P459095

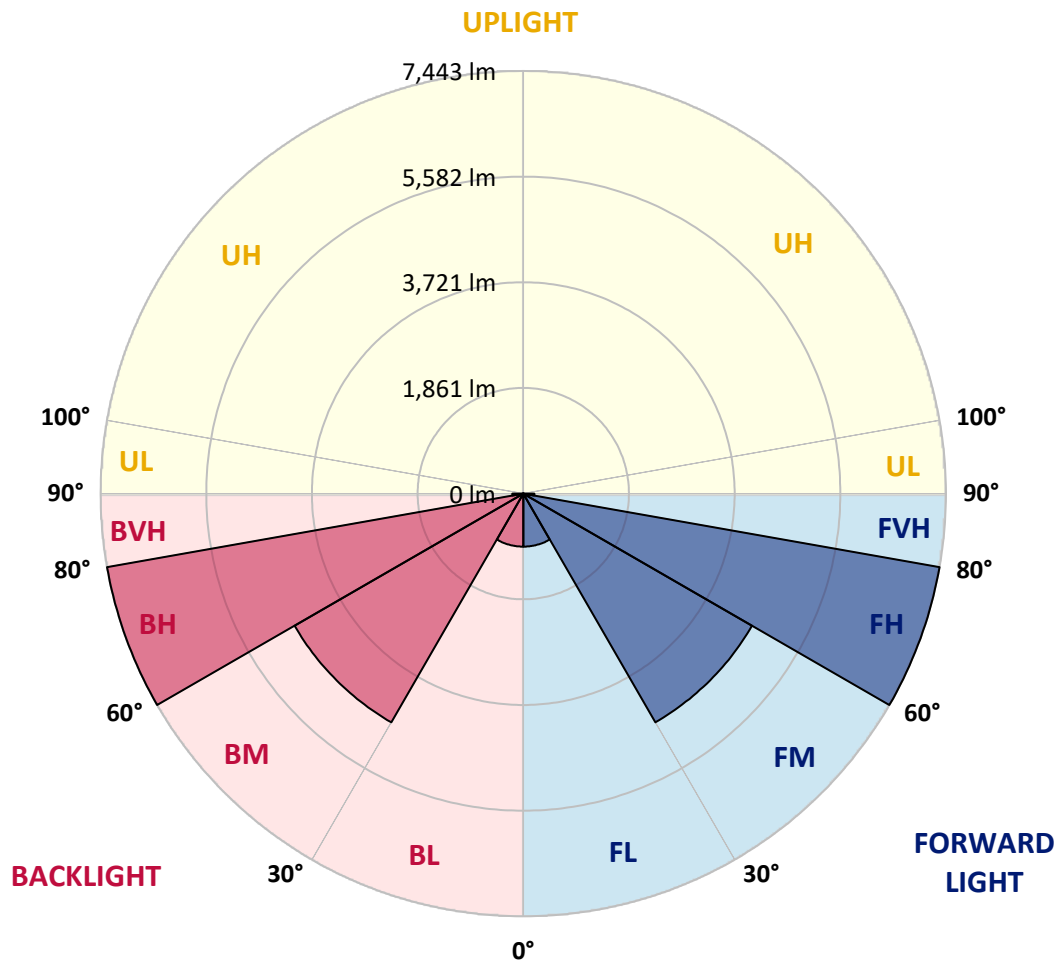
CATALOG NUMBER: GALN-SA6A-735-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	933.1	3.5			
FM (30°-60°)	4649.2	17.6			
FH (60°-80°)	7442.6	28.1			G3/7500
FVH (80°-90°)	194.6	0.7			G2/225
BL (0°-30°)	933.1	3.5	B2/1000		
BM (30°-60°)	4649.2	17.6	B3/5000		
BH (60°-80°)	7442.6	28.1	B5		G3/7500
BVH (80°-90°)	194.6	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°	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4
2.5°	2232.8	2234.2	2234.2	2231.4	2230.0	2230.0	2228.6	2228.6	2232.8	2234.2	2235.6
5°	2213.3	2213.3	2213.3	2211.9	2209.1	2209.1	2206.3	2206.3	2207.7	2211.9	2209.1
7.5°	2186.7	2189.5	2189.5	2183.9	2179.7	2179.7	2178.3	2179.7	2181.1	2185.3	2183.9
10°	2178.3	2179.7	2172.8	2163.0	2156.0	2151.8	2153.2	2156.0	2163.0	2165.8	2167.2
12.5°	2183.9	2183.9	2171.4	2157.4	2144.8	2139.2	2137.8	2147.6	2160.2	2168.6	2171.4
15°	2190.9	2188.1	2172.8	2154.6	2142.0	2140.6	2139.2	2146.2	2164.4	2181.1	2182.5
17.5°	2195.1	2193.7	2174.2	2151.8	2144.8	2144.8	2143.4	2149.0	2168.6	2189.5	2190.9
20°	2209.1	2204.9	2182.5	2158.8	2153.2	2156.0	2151.8	2158.8	2179.7	2204.9	2210.5
22.5°	2237.0	2232.8	2210.5	2186.7	2183.9	2183.9	2182.5	2189.5	2211.9	2238.4	2242.6
25°	2270.5	2266.3	2245.4	2228.6	2231.4	2237.0	2234.2	2235.6	2253.7	2276.1	2283.1
27.5°	2315.2	2308.2	2290.1	2276.1	2284.5	2284.5	2284.5	2283.1	2294.2	2315.2	2322.2
30°	2369.6	2366.9	2347.3	2345.9	2352.9	2345.9	2345.9	2347.3	2348.7	2368.2	2375.2
32.5°	2440.9	2435.3	2425.5	2422.7	2442.3	2447.8	2428.3	2410.1	2419.9	2439.5	2443.7
35°	2558.2	2549.8	2535.8	2520.5	2535.8	2562.3	2520.5	2506.5	2531.6	2558.2	2560.9
37.5°	2717.3	2713.2	2690.8	2662.9	2661.5	2689.4	2646.1	2644.7	2692.2	2724.3	2728.5
40°	2917.0	2921.2	2893.3	2866.8	2852.8	2875.1	2841.6	2854.2	2900.3	2936.6	2933.8
42.5°	3197.7	3182.3	3139.0	3113.9	3098.6	3090.2	3081.8	3101.3	3153.0	3192.1	3222.8
45°	3525.8	3520.3	3465.8	3435.1	3401.6	3389.0	3386.2	3421.1	3483.9	3531.4	3535.6
47.5°	3897.3	3884.7	3849.8	3817.7	3805.1	3789.8	3775.8	3802.3	3865.2	3898.7	3908.4
50°	4279.9	4282.7	4282.7	4277.1	4289.7	4292.4	4254.7	4264.5	4299.4	4296.6	4293.8
52.5°	4716.9	4732.3	4804.9	4811.9	4871.9	4912.4	4844.0	4803.5	4791.0	4715.5	4721.1
55°	5230.8	5244.8	5353.7	5462.6	5624.6	5693.0	5549.2	5423.5	5334.1	5219.6	5225.2
57.5°	5871.7	5878.7	5982.1	6191.5	6448.4	6609.0	6356.3	6107.7	5926.2	5817.3	5774.0
60°	6561.6	6568.5	6719.3	6974.9	7374.2	7569.7	7256.9	6850.6	6621.6	6455.4	6466.6
62.5°	7389.6	7417.5	7553.0	7904.9	8389.4	8608.6	8193.9	7650.7	7340.7	7134.1	7142.4
65°	8276.3	8323.8	8471.8	8858.6	9305.4	9541.4	9033.1	8406.2	8020.8	7768.0	7794.6
67.5°	8851.6	8893.5	9107.1	9534.4	10091.6	10287.1	9630.8	8900.5	8418.7	8117.1	8061.3
70°	8705.0	8739.9	9024.8	9630.8	10456.0	10703.2	9773.2	8827.9	8260.9	7913.2	7890.9
72.5°	7684.2	7611.6	8027.7	8897.7	10039.9	10454.6	9325.0	8062.7	7349.1	6991.6	6949.7
75°	5092.6	5250.4	5864.8	6889.7	8494.1	9008.0	7959.3	6473.6	5575.7	5278.3	5232.2
77.5°	1702.2	1823.7	2369.6	3905.7	5790.8	6563.0	5799.1	4233.8	2995.2	2412.9	2424.1
80°	451.0	445.4	576.7	1073.8	2502.3	3800.9	2912.8	1434.1	784.8	568.3	539.0
82.5°	162.0	181.5	233.2	297.4	663.3	1181.3	833.6	402.2	294.6	217.8	210.9
85°	71.2	69.8	100.5	118.7	166.2	220.6	195.5	170.4	149.4	99.1	92.2
87.5°	15.4	15.4	23.7	18.2	29.3	29.3	36.3	43.3	44.7	29.3	23.7
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)