

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: P458631

Luminaire Tested: **GALN-SA2A-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458631
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-SA2A-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 8966 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

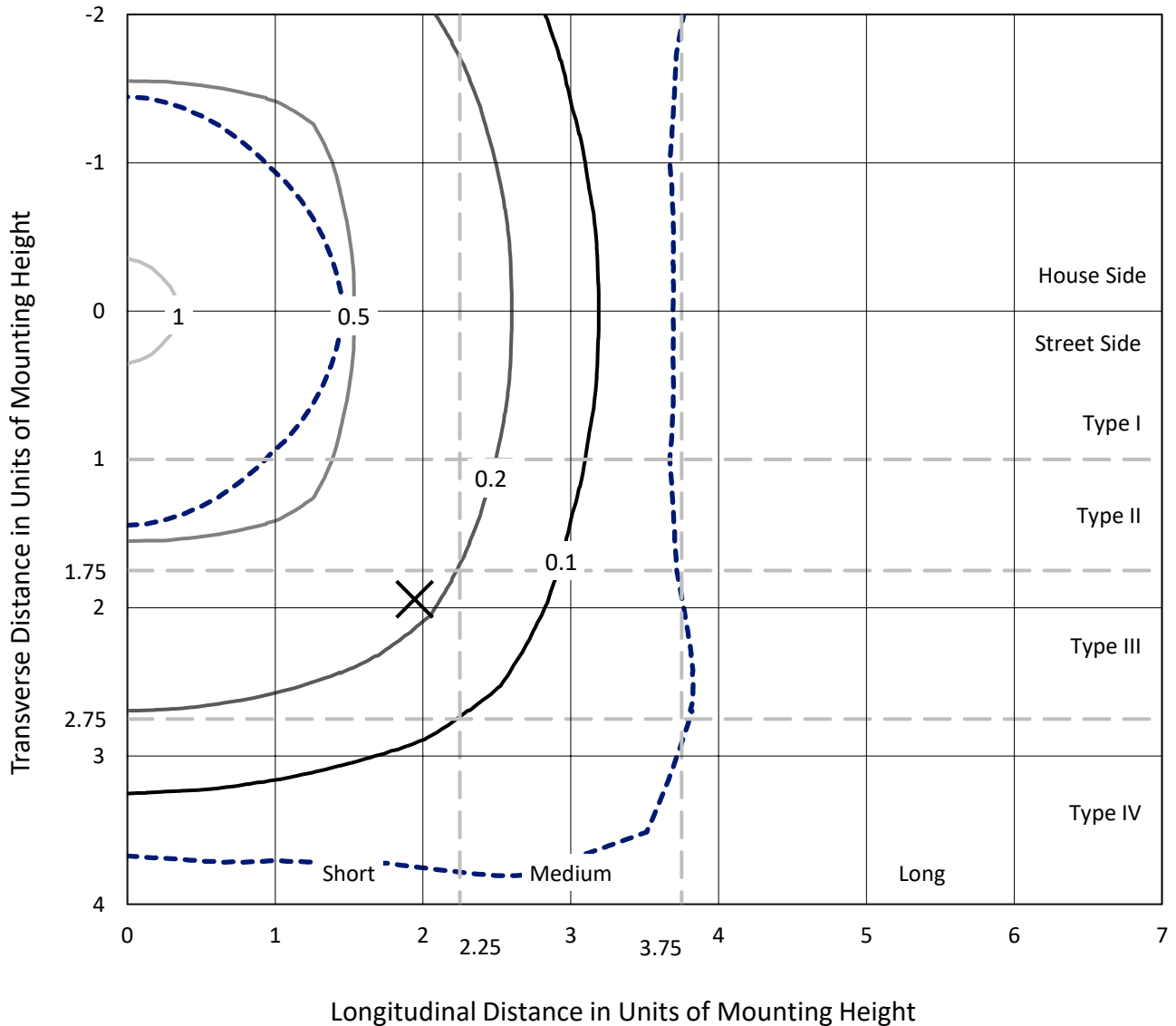
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

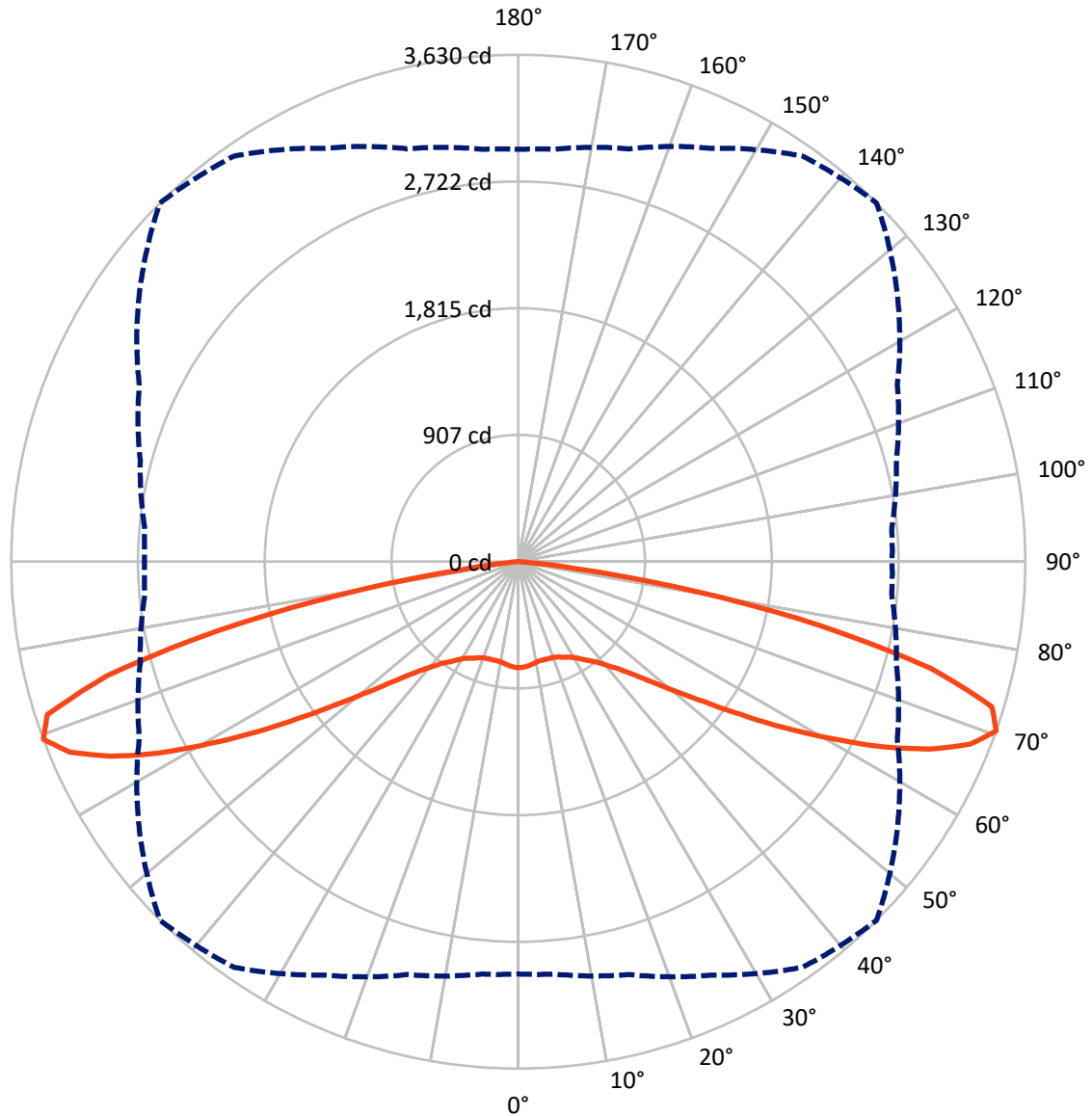
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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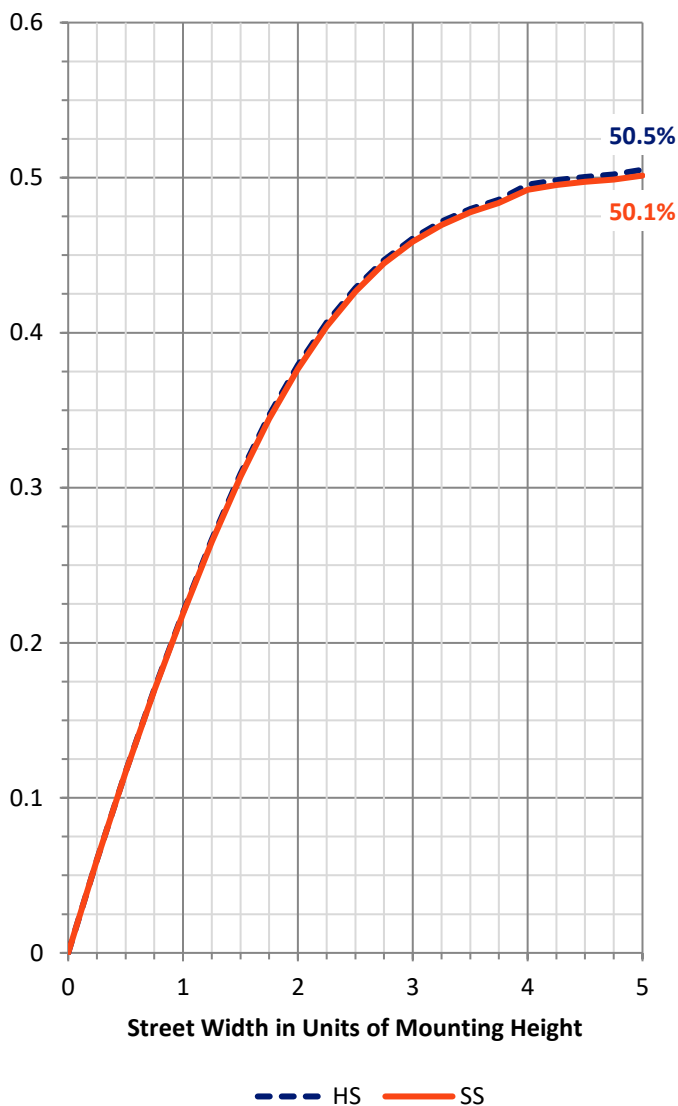
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4483.0	0.0	4483.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4483.0	0.0	4483.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8966.0	0.0	8966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	0.8
10°-20°	207.8	2.3
20°-30°	354.1	3.9
30°-40°	548.8	6.1
40°-50°	923.7	10.3
50°-60°	1680.7	18.7
60°-70°	2845.4	31.7
70°-80°	2202.5	24.6
80°-90°	132.0	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°	8966.0	100.0
0°-180°	8966.0	100.0

Coefficient of Utilization



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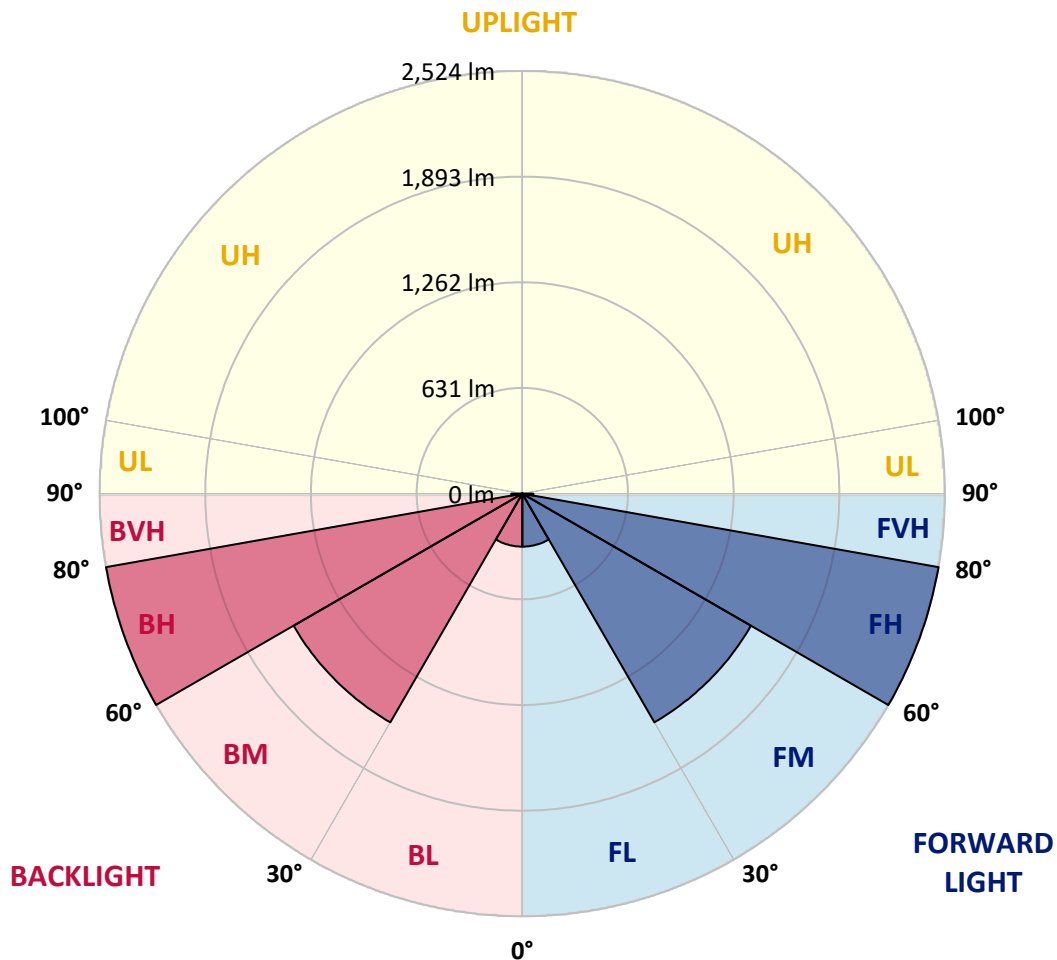
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	316.4	3.5			
FM (30°-60°)	1576.6	17.6			
FH (60°-80°)	2523.9	28.2			G2/5000
FVH (80°-90°)	66.0	0.7			G1/100
BL (0°-30°)	316.4	3.5	B1/500		
BM (30°-60°)	1576.6	17.6	B2/2500		
BH (60°-80°)	2523.9	28.2	B4/5000		G2/5000
BVH (80°-90°)	66.0	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1
2.5°	757.2	757.7	757.7	756.7	756.2	756.2	755.8	755.8	757.2	757.7	758.1
5°	750.6	750.6	750.6	750.1	749.1	749.1	748.2	748.2	748.7	750.1	749.1
7.5°	741.6	742.5	742.5	740.6	739.2	739.2	738.7	739.2	739.7	741.1	740.6
10°	738.7	739.2	736.8	733.5	731.1	729.7	730.2	731.1	733.5	734.5	734.9
12.5°	740.6	740.6	736.4	731.6	727.4	725.5	725.0	728.3	732.6	735.4	736.4
15°	743.0	742.0	736.8	730.7	726.4	725.9	725.5	727.8	734.0	739.7	740.1
17.5°	744.4	743.9	737.3	729.7	727.4	727.4	726.9	728.8	735.4	742.5	743.0
20°	749.1	747.7	740.1	732.1	730.2	731.1	729.7	732.1	739.2	747.7	749.6
22.5°	758.6	757.2	749.6	741.6	740.6	740.6	740.1	742.5	750.1	759.1	760.5
25°	770.0	768.6	761.4	755.8	756.7	758.6	757.7	758.1	764.3	771.9	774.2
27.5°	785.1	782.8	776.6	771.9	774.7	774.7	774.7	774.2	778.0	785.1	787.5
30°	803.6	802.6	796.0	795.5	797.9	795.5	795.5	796.0	796.5	803.1	805.5
32.5°	827.7	825.9	822.5	821.6	828.2	830.1	823.5	817.3	820.6	827.3	828.7
35°	867.5	864.7	859.9	854.7	859.9	868.9	854.7	850.0	858.5	867.5	868.5
37.5°	921.5	920.1	912.5	903.0	902.6	912.0	897.4	896.9	913.0	923.9	925.3
40°	989.2	990.6	981.2	972.2	967.4	975.0	963.7	967.9	983.5	995.9	994.9
42.5°	1084.4	1079.2	1064.5	1056.0	1050.8	1047.9	1045.1	1051.7	1069.2	1082.5	1092.9
45°	1195.7	1193.8	1175.3	1164.9	1153.5	1149.3	1148.3	1160.2	1181.5	1197.6	1199.0
47.5°	1321.6	1317.4	1305.5	1294.7	1290.4	1285.2	1280.4	1289.4	1310.8	1322.1	1325.4
50°	1451.4	1452.3	1452.3	1450.4	1454.7	1455.7	1442.9	1446.2	1458.0	1457.1	1456.1
52.5°	1599.6	1604.8	1629.4	1631.8	1652.2	1665.9	1642.7	1629.0	1624.7	1599.1	1601.0
55°	1773.9	1778.6	1815.5	1852.5	1907.4	1930.6	1881.8	1839.2	1808.9	1770.1	1772.0
57.5°	1991.2	1993.6	2028.6	2099.7	2186.8	2241.3	2155.5	2071.3	2009.7	1972.8	1958.1
60°	2225.2	2227.5	2278.7	2365.3	2500.8	2567.1	2461.0	2323.2	2245.5	2189.2	2193.0
62.5°	2506.0	2515.4	2561.4	2680.7	2845.0	2919.4	2778.7	2594.5	2489.4	2419.3	2422.1
65°	2806.7	2822.8	2873.0	3004.1	3155.7	3235.7	3063.3	2850.7	2720.0	2634.3	2643.3
67.5°	3001.8	3016.0	3088.4	3233.3	3422.3	3488.6	3266.0	3018.3	2855.0	2752.7	2733.7
70°	2952.0	2963.9	3060.5	3266.0	3545.9	3629.7	3314.3	2993.7	2801.5	2683.5	2676.0
72.5°	2605.9	2581.3	2722.4	3017.4	3404.7	3545.4	3162.3	2734.2	2492.2	2371.0	2356.8
75°	1727.0	1780.5	1988.9	2336.4	2880.5	3054.8	2699.2	2195.3	1890.8	1790.0	1774.3
77.5°	577.2	618.4	803.6	1324.5	1963.8	2225.6	1966.6	1435.8	1015.7	818.3	822.1
80°	153.0	151.1	195.6	364.2	848.6	1289.0	987.8	486.3	266.1	192.7	182.8
82.5°	54.9	61.6	79.1	100.9	224.9	400.6	282.7	136.4	99.9	73.9	71.5
85°	24.2	23.7	34.1	40.3	56.4	74.8	66.3	57.8	50.7	33.6	31.3
87.5°	5.2	5.2	8.1	6.2	9.9	9.9	12.3	14.7	15.2	9.9	8.1
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)