

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: P458721

Luminaire Tested: **GALN-SA2D-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14952 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

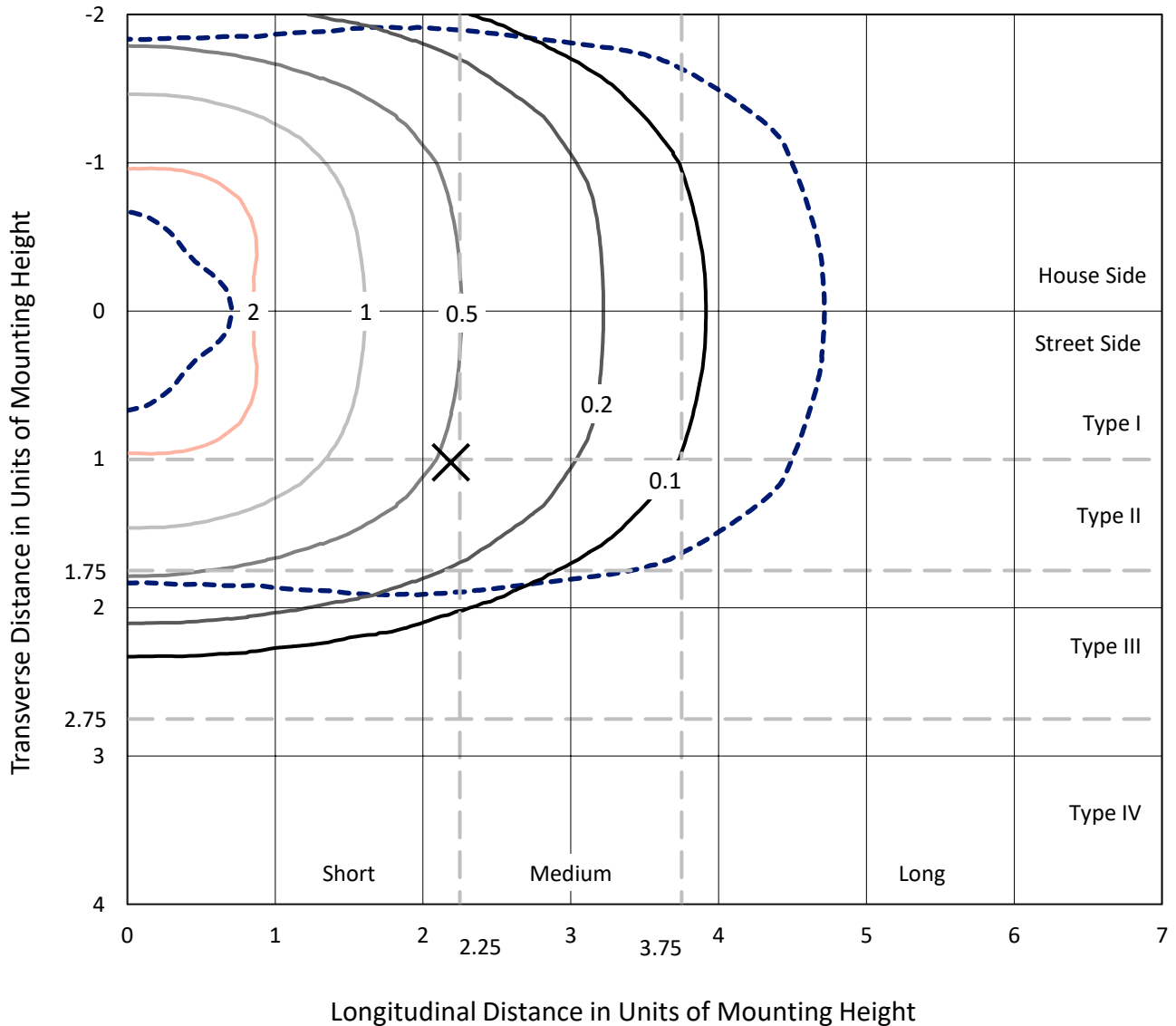
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458721
 CATALOG NUMBER: GALN-SA2D-735-U-RW

Iso-Footcandle Lines of Horizontal Illumination

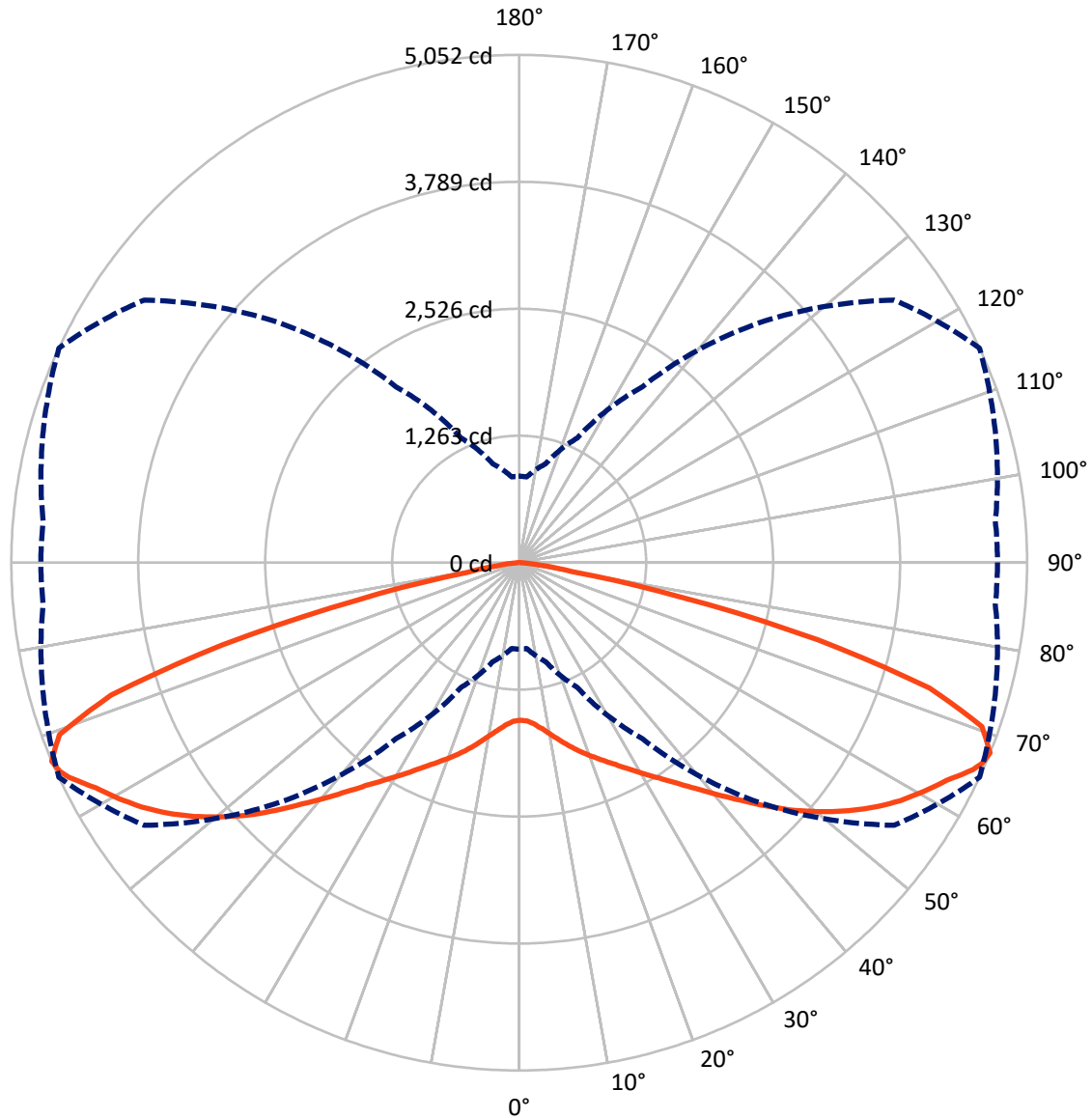
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

REPORT NUMBER: P458721
CATALOG NUMBER: GALN-SA2D-735-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P458721

CATALOG NUMBER: GALN-SA2D-735-U-RW

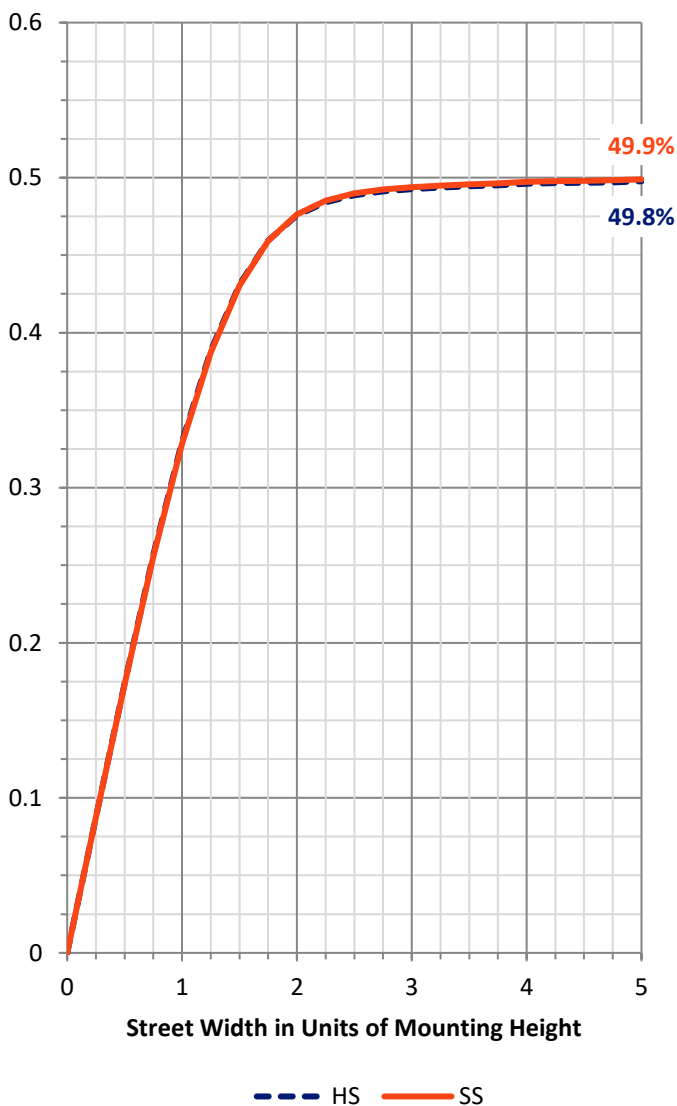
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7476.0	0.0	7476.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7476.0	0.0	7476.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14952.0	0.0	14952.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	1.0
10°-20°	517.0	3.5
20°-30°	1011.2	6.8
30°-40°	1719.9	11.5
40°-50°	2722.1	18.2
50°-60°	3609.5	24.1
60°-70°	3404.9	22.8
70°-80°	1683.2	11.3
80°-90°	129.7	0.9
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°	14952.0	100.0
0°-180°	14952.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458721

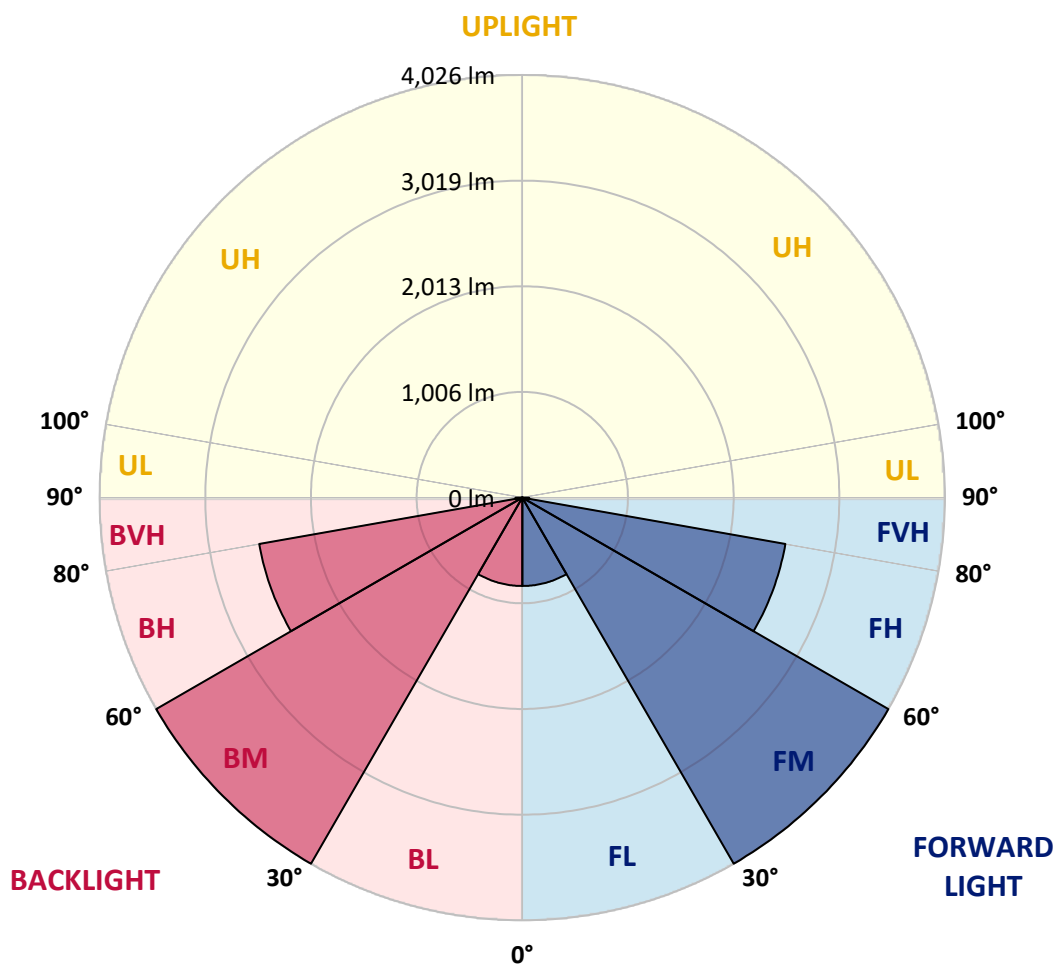
CATALOG NUMBER: GALN-SA2D-735-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	841.3	5.6			
FM	(30°-60°)	4025.8	26.9			
FH	(60°-80°)	2544.0	17.0			G2/5000
FVH	(80°-90°)	64.9	0.4			G1/100
BL	(0°-30°)	841.3	5.6	B2/1000		
BM	(30°-60°)	4025.8	26.9	B3/5000		
BH	(60°-80°)	2544.0	17.0	B4/5000		G4/5000
BVH	(80°-90°)	64.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





REPORT NUMBER: P458721

CATALOG NUMBER: GALN-SA2D-735-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1	1566.1
2.5°	1558.1	1559.7	1561.3	1563.7	1566.9	1571.7	1574.9	1577.3	1583.7	1584.5	1583.7
5°	1552.5	1554.1	1558.1	1565.3	1575.7	1590.1	1601.3	1615.0	1625.4	1632.6	1631.0
7.5°	1551.7	1554.9	1561.3	1576.5	1596.5	1621.4	1647.0	1670.2	1690.3	1706.3	1703.9
10°	1564.5	1568.5	1578.9	1601.3	1632.6	1668.6	1704.7	1739.1	1768.0	1788.8	1796.0
12.5°	1586.1	1589.3	1608.5	1642.2	1687.1	1731.9	1772.8	1815.2	1855.3	1890.5	1890.5
15°	1623.8	1629.4	1653.4	1702.3	1757.5	1809.6	1851.3	1896.1	1939.4	1979.4	1991.5
17.5°	1675.8	1683.8	1719.9	1782.4	1852.9	1900.9	1940.2	1977.0	2014.7	2053.1	2058.7
20°	1747.1	1755.1	1803.2	1878.5	1961.8	2019.5	2045.9	2054.7	2073.2	2110.0	2114.8
22.5°	1844.1	1852.1	1905.7	1990.7	2083.6	2146.1	2157.3	2136.5	2131.6	2160.5	2163.7
25°	1953.8	1961.0	2022.7	2114.0	2210.1	2278.2	2275.0	2223.8	2194.9	2212.6	2217.4
27.5°	2077.2	2087.6	2150.1	2244.6	2348.7	2408.8	2399.2	2324.7	2263.0	2259.8	2261.4
30°	2235.0	2246.2	2305.5	2396.0	2498.5	2553.8	2533.8	2433.6	2338.3	2306.3	2306.3
32.5°	2401.6	2429.6	2489.7	2584.2	2664.4	2704.4	2674.0	2553.8	2427.2	2382.4	2380.0
35°	2618.7	2633.9	2693.2	2785.3	2845.4	2876.6	2818.2	2689.2	2543.4	2490.5	2483.3
37.5°	2831.0	2843.8	2912.7	3000.8	3073.7	3072.1	2992.8	2850.2	2687.6	2628.3	2623.5
40°	3048.1	3061.7	3140.2	3221.1	3294.0	3287.6	3191.5	3032.0	2859.0	2792.5	2805.3
42.5°	3236.3	3251.5	3340.5	3455.8	3521.5	3519.9	3408.5	3229.1	3048.9	2989.6	3000.8
45°	3407.7	3421.4	3524.7	3656.9	3753.0	3765.0	3643.3	3453.4	3268.4	3192.3	3195.5
47.5°	3528.7	3554.3	3662.5	3813.9	3944.5	3986.9	3867.6	3681.7	3468.6	3389.3	3394.1
50°	3620.8	3636.9	3754.6	3926.8	4091.9	4180.0	4083.9	3893.2	3668.9	3584.8	3596.0
52.5°	3632.0	3651.3	3779.4	3978.1	4189.6	4323.4	4276.1	4099.9	3873.2	3786.7	3810.7
55°	3540.7	3551.9	3704.9	3946.1	4228.0	4429.9	4441.9	4292.1	4067.8	4002.1	4018.2
57.5°	3280.4	3309.2	3503.1	3796.3	4175.2	4486.8	4566.1	4466.8	4264.9	4200.0	4225.6
60°	2853.4	2882.2	3076.9	3448.6	3975.7	4460.4	4668.6	4621.4	4443.5	4391.5	4405.1
62.5°	2235.8	2233.4	2474.5	2930.3	3579.2	4330.6	4744.7	4770.4	4619.8	4554.1	4574.9
65°	1449.1	1456.3	1689.5	2180.5	2980.8	4000.5	4761.6	4960.2	4792.8	4693.5	4708.7
66°	1165.6	1187.2	1385.0	1837.7	2675.6	3784.3	4711.1	5016.3	4845.7	4725.5	4732.7
67.5°	860.3	856.3	1019.0	1368.2	2136.5	3373.3	4553.3	5051.5	4905.7	4754.3	4757.5
70°	491.1	490.3	547.9	751.4	1256.1	2375.2	3837.9	4882.5	5027.5	4858.5	4849.7
72.5°	358.9	356.5	364.5	415.0	612.8	1199.2	2647.5	4267.3	4965.0	4841.7	4816.8
75°	301.2	299.6	298.0	304.4	343.7	543.1	1405.1	3069.7	4308.1	4544.5	4518.8
77.5°	245.9	245.9	246.7	245.1	246.7	286.0	582.4	1645.4	2623.5	2928.7	3000.0
80°	192.3	191.5	205.1	199.5	186.6	183.4	257.9	529.5	870.8	866.0	714.6
82.5°	141.8	132.2	156.2	152.2	137.8	117.0	150.6	225.9	290.8	189.1	140.2
85°	89.7	88.9	110.5	100.9	84.1	55.3	72.1	96.9	120.2	72.9	59.3
87.5°	16.0	15.2	35.2	25.6	25.6	16.0	20.0	26.4	39.3	27.2	20.0
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)