

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: P527703

Luminaire Tested: **GALN-SA2D-730-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-730-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9733 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

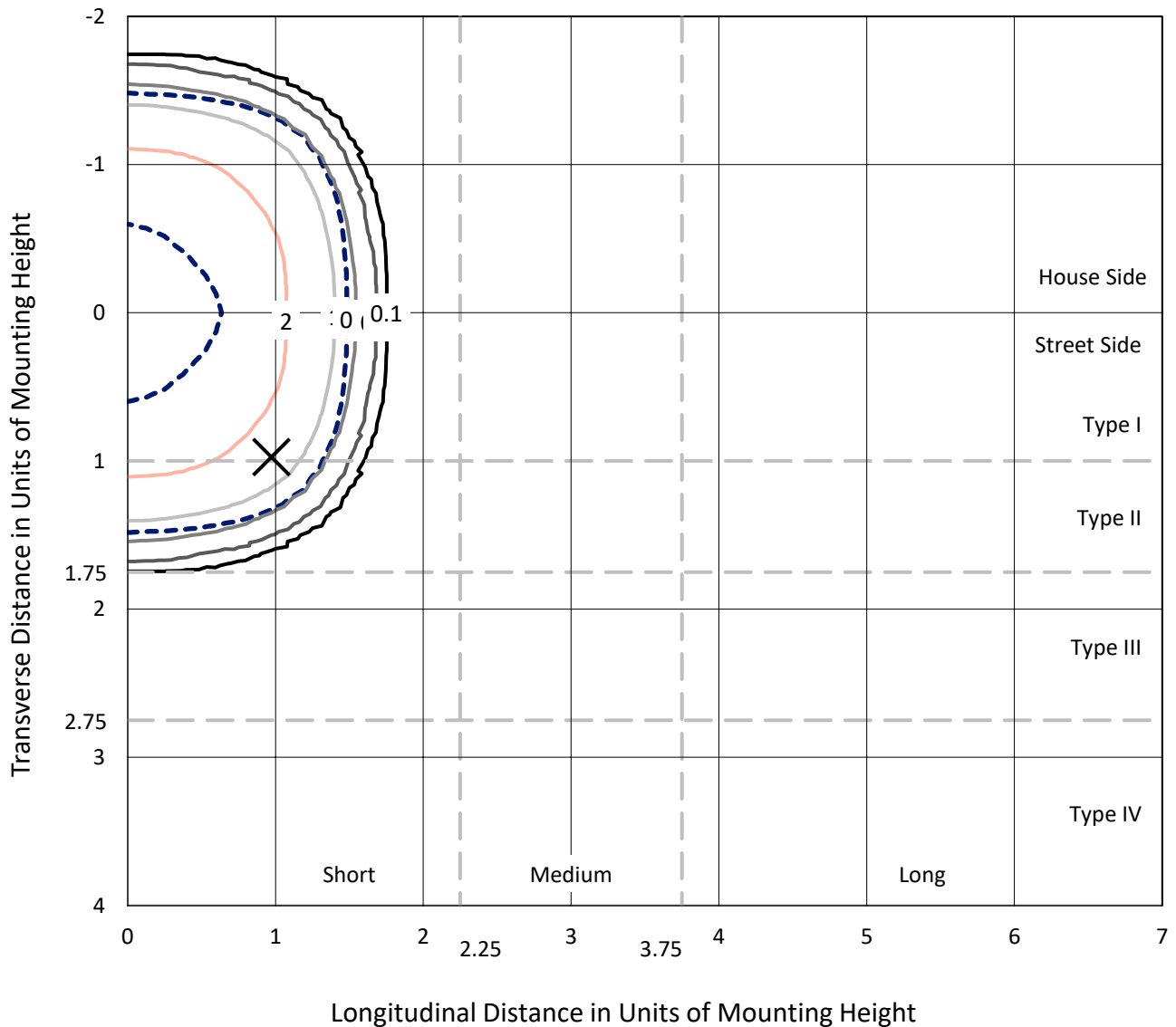
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

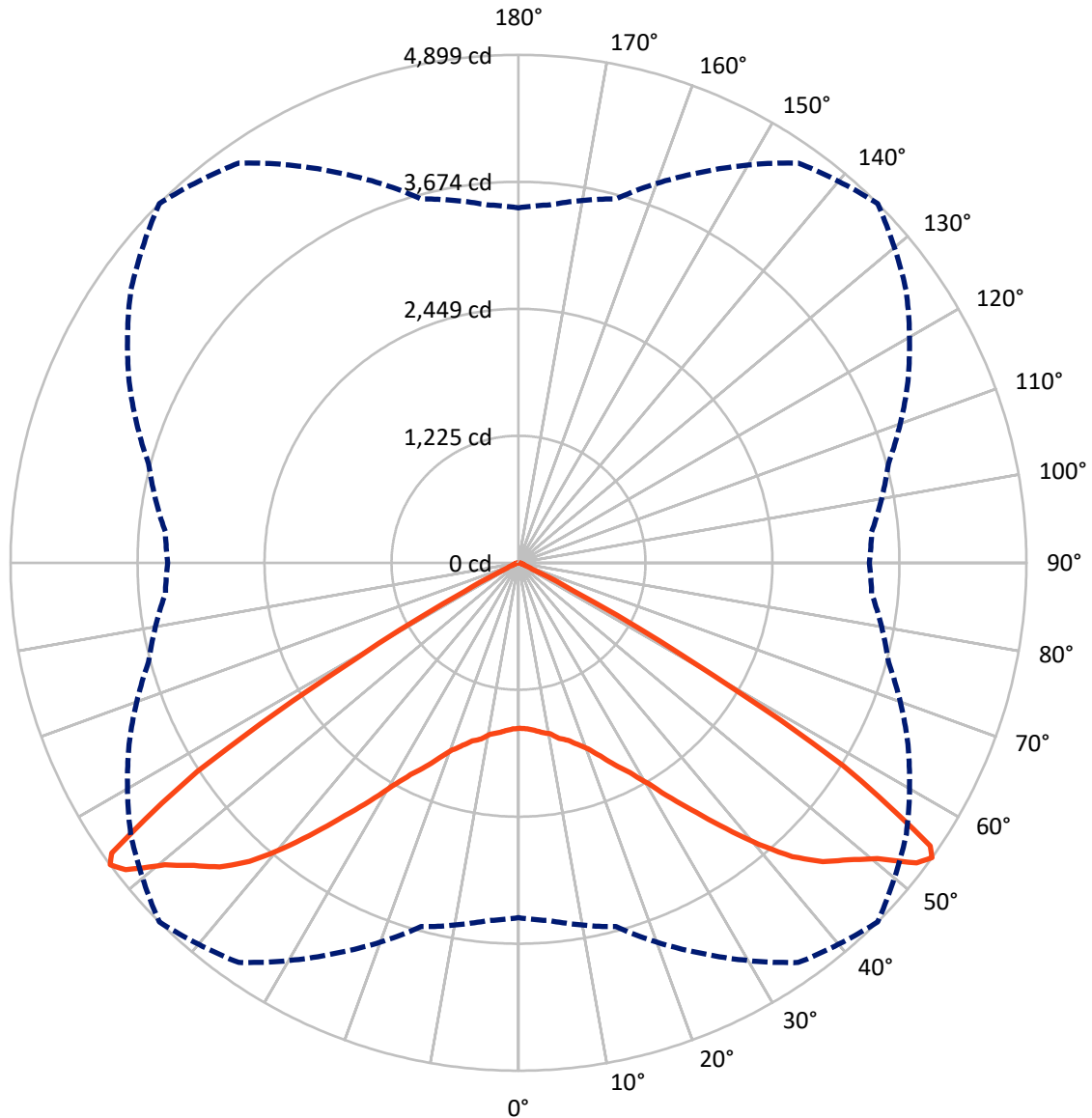
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4866.5	0.0	4866.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4866.5	0.0	4866.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9733.0	0.0	9733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	1.6
10°-20°	505.8	5.2
20°-30°	991.4	10.2
30°-40°	1782.8	18.3
40°-50°	3051.8	31.4
50°-60°	2952.9	30.3
60°-70°	252.8	2.6
70°-80°	30.0	0.3
80°-90°	9.4	0.1
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°	9733.0	100.0
0°-180°	9733.0	100.0

Coefficient of Utilization



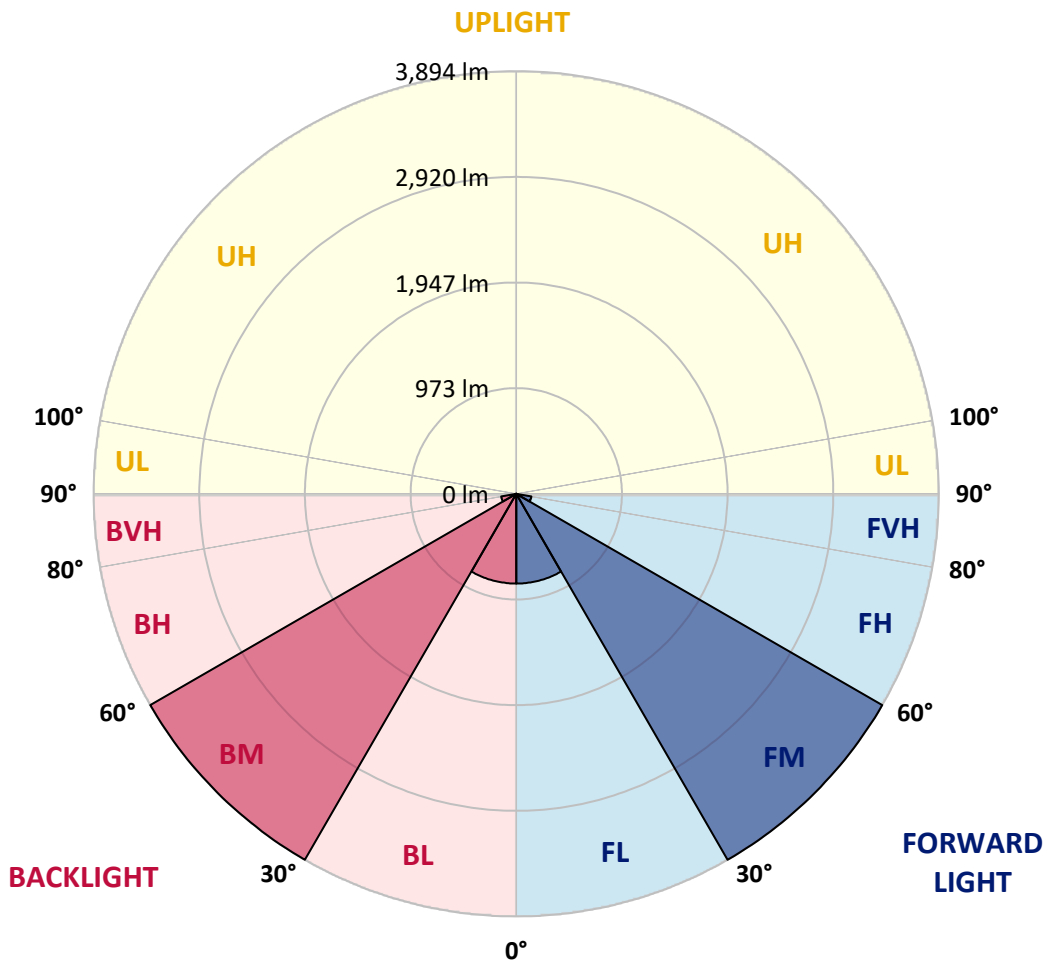
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	826.7	8.5			
FM (30°-60°)	3893.7	40.0			
FH (60°-80°)	141.4	1.5			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	826.7	8.5	B2/1000		
BM (30°-60°)	3893.7	40.0	B3/5000		
BH (60°-80°)	141.4	1.5	B1/500		G0/660
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1595.9	1595.9	1595.9	1595.9	1595.9	1595.9	1595.9	1595.9	1595.9	1595.9	1595.9
2.5°	1603.6	1612.9	1606.7	1611.3	1611.3	1603.6	1608.2	1589.7	1602.1	1592.8	1594.4
5°	1628.3	1626.7	1626.7	1628.3	1622.1	1625.2	1619.0	1612.9	1608.2	1602.1	1620.6
7.5°	1659.1	1659.1	1648.3	1651.4	1648.3	1653.0	1640.6	1628.3	1623.7	1619.0	1616.0
10°	1688.4	1685.3	1680.7	1694.6	1683.8	1677.6	1671.5	1663.8	1646.8	1640.6	1634.5
12.5°	1731.6	1730.1	1723.9	1737.8	1731.6	1737.8	1714.6	1694.6	1691.5	1671.5	1682.3
15°	1782.5	1796.4	1785.6	1785.6	1782.5	1774.8	1765.5	1756.3	1728.5	1720.8	1722.3
17.5°	1848.8	1844.2	1845.7	1845.7	1861.1	1841.1	1822.6	1799.4	1785.6	1780.9	1765.5
20°	1912.0	1918.2	1916.6	1927.4	1936.7	1915.1	1895.0	1892.0	1853.4	1859.6	1838.0
22.5°	2023.0	2018.4	2026.1	2033.8	2027.7	2024.6	2006.1	1982.9	1949.0	1933.6	1930.5
25°	2140.2	2132.5	2118.6	2137.1	2146.4	2160.3	2124.8	2112.5	2060.0	2036.9	2038.4
27.5°	2240.4	2251.2	2266.7	2274.4	2297.5	2292.9	2268.2	2228.1	2188.0	2161.8	2144.8
30°	2377.7	2383.8	2410.1	2420.8	2460.9	2471.7	2433.2	2386.9	2316.0	2282.1	2262.0
32.5°	2504.1	2547.3	2545.7	2599.7	2664.5	2709.2	2639.8	2568.9	2497.9	2457.9	2422.4
35°	2709.2	2701.5	2746.2	2803.2	2908.1	2959.0	2883.4	2801.7	2693.8	2629.0	2601.3
37.5°	2900.4	2903.5	2963.6	3054.6	3174.9	3253.5	3187.2	3053.0	2942.0	2858.8	2820.2
40°	3177.9	3184.1	3245.8	3349.1	3484.8	3569.6	3492.5	3356.8	3208.8	3144.0	3144.0
42.5°	3503.3	3529.5	3569.6	3659.0	3780.8	3874.9	3805.5	3699.1	3549.5	3466.3	3478.6
45°	3837.9	3850.2	3876.4	4009.0	4066.1	4112.4	4047.6	3998.3	3898.0	3796.3	3779.3
47.5°	4150.9	4155.5	4232.6	4274.3	4319.0	4280.4	4322.1	4257.3	4144.7	4046.1	4026.0
50°	4289.7	4282.0	4391.4	4517.9	4551.8	4484.0	4448.5	4405.3	4234.2	4115.4	4063.0
52.5°	3885.7	3930.4	4133.9	4485.5	4750.7	4807.8	4601.2	4402.2	4083.1	3851.8	3816.3
54°	3423.1	3464.7	3632.8	4154.0	4706.0	4898.7	4565.7	4143.2	3692.9	3418.5	3383.0
55°	2965.2	2918.9	3224.2	3756.2	4496.3	4818.6	4425.4	3808.6	3293.6	3042.2	2992.9
57.5°	1605.2	1612.9	1870.4	2373.0	3159.4	3694.5	3262.7	2576.6	1945.9	1663.8	1639.1
60°	508.8	521.2	633.7	959.1	1509.6	1802.5	1545.0	1034.6	715.5	573.6	550.5
62.5°	158.8	165.0	180.4	268.3	413.2	590.6	462.6	277.5	206.6	189.7	192.7
65°	97.1	97.1	98.7	104.9	123.4	143.4	138.8	121.8	117.2	114.1	112.6
67.5°	63.2	61.7	64.8	69.4	72.5	74.0	78.6	83.3	81.7	78.6	78.6
70°	38.5	37.0	40.1	46.3	47.8	50.9	55.5	61.7	60.1	57.1	58.6
72.5°	21.6	21.6	23.1	27.8	32.4	35.5	40.1	44.7	46.3	44.7	44.7
75°	7.7	9.3	12.3	17.0	20.0	24.7	29.3	33.9	38.5	35.5	33.9
77.5°	3.1	3.1	6.2	10.8	15.4	20.0	27.8	32.4	35.5	32.4	29.3
80°	1.5	1.5	4.6	9.3	13.9	18.5	23.1	27.8	29.3	26.2	23.1
82.5°	1.5	1.5	4.6	9.3	13.9	17.0	24.7	27.8	30.8	27.8	23.1
85°	0.0	1.5	4.6	9.3	12.3	13.9	13.9	9.3	7.7	4.6	4.6
87.5°	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)