

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: P451873

Luminaire Tested: **GALN-SA2D-740-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-740-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16235 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

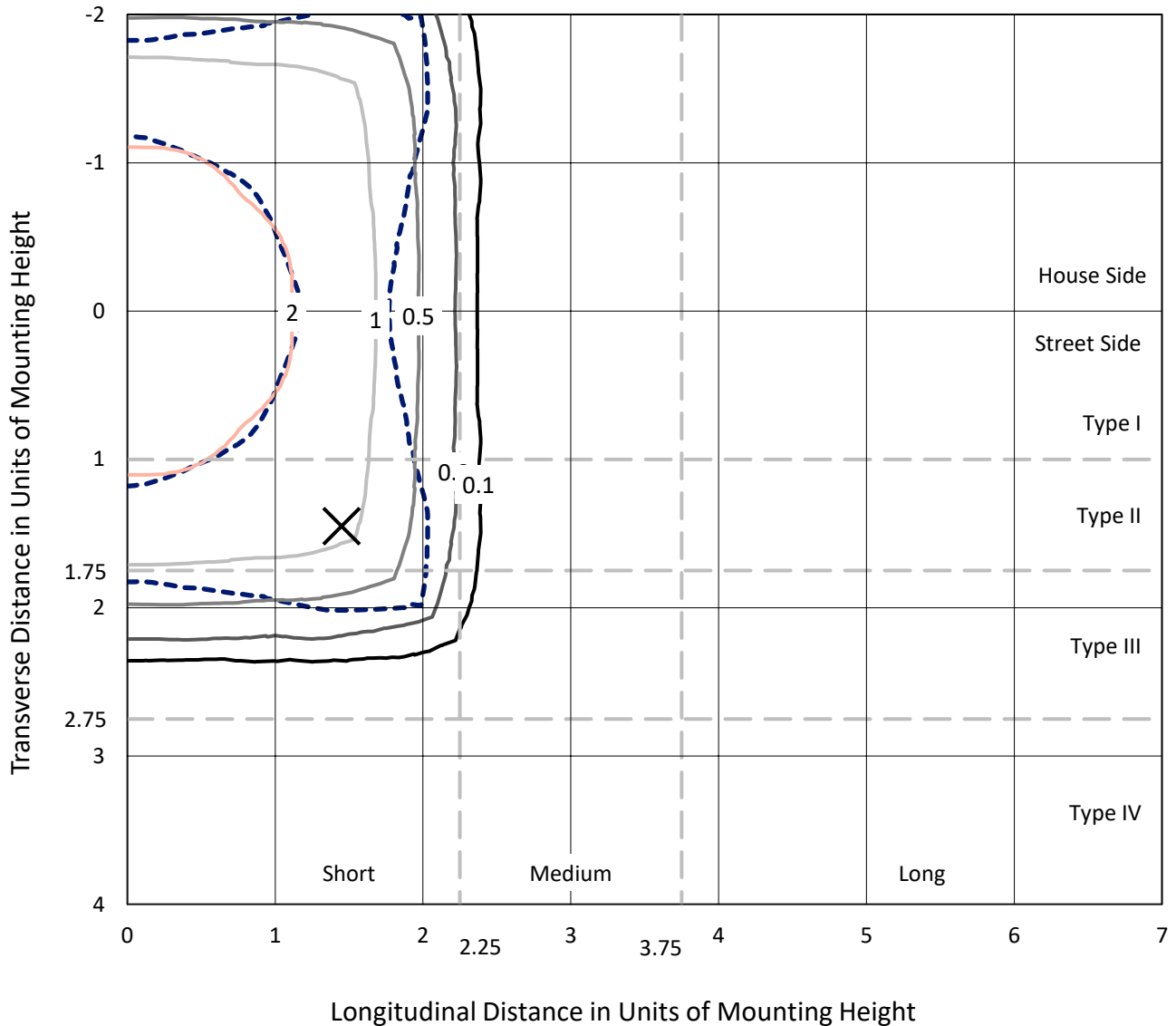
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

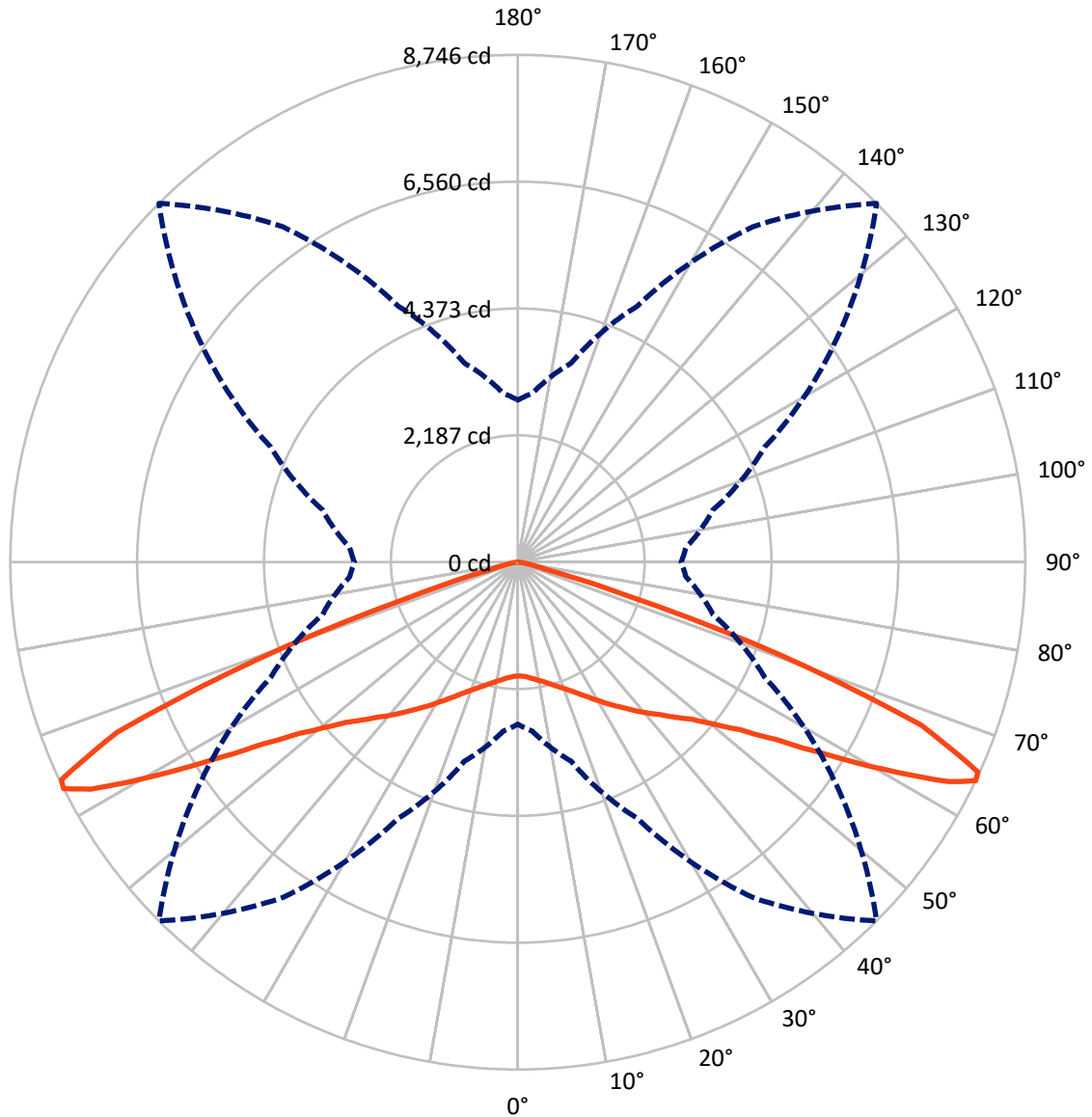
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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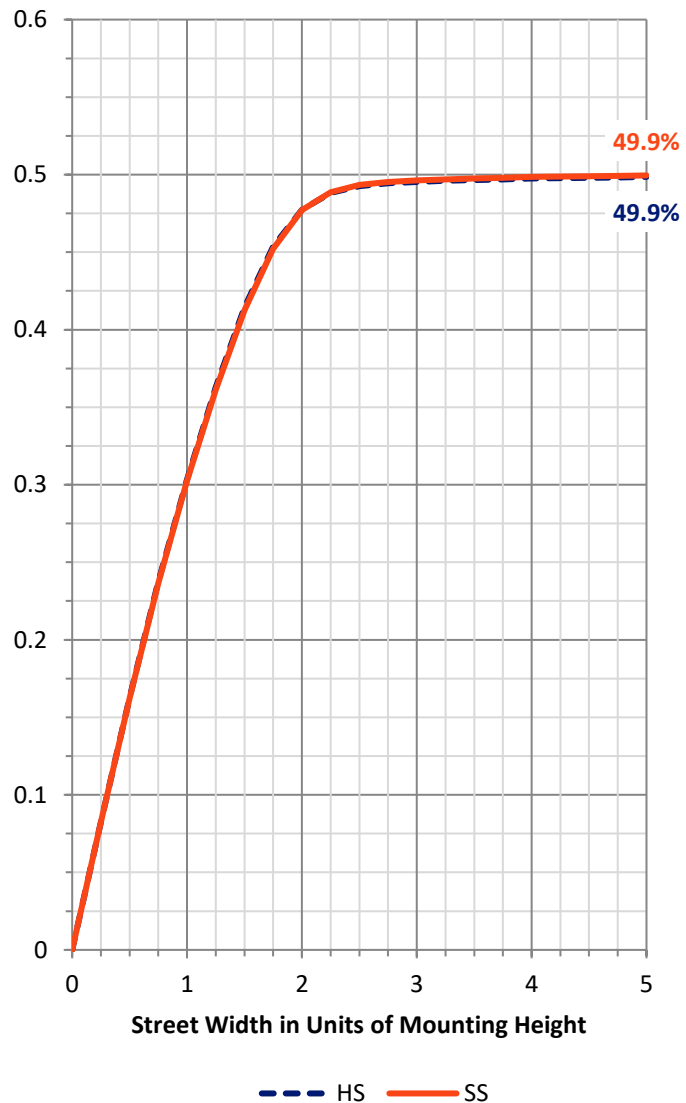
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8117.5	0.0	8117.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8117.5	0.0	8117.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16235.0	0.0	16235.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.8	1.2
10°-20°	621.8	3.8
20°-30°	1175.1	7.2
30°-40°	1946.1	12.0
40°-50°	3038.2	18.7
50°-60°	4696.9	28.9
60°-70°	4050.1	24.9
70°-80°	459.0	2.8
80°-90°	55.0	0.3
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°	16235.0	100.0
0°-180°	16235.0	100.0



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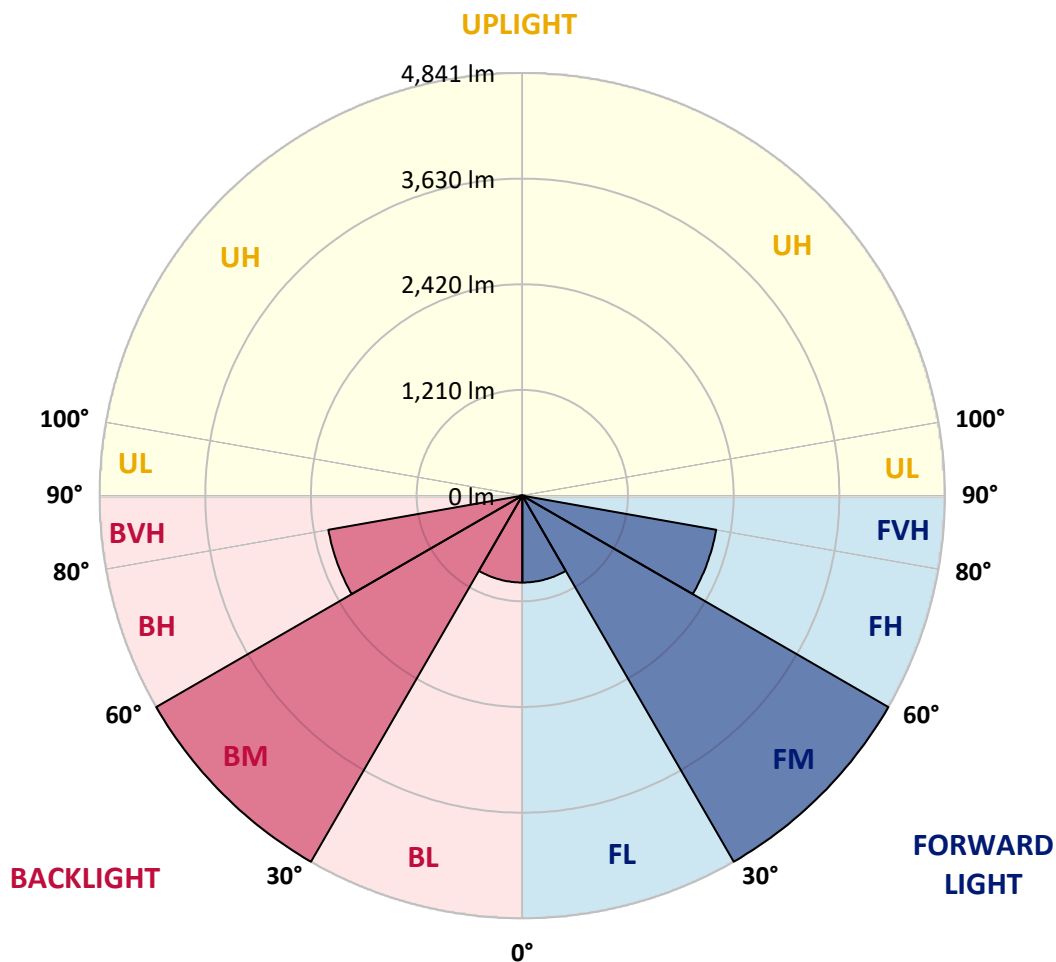
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	994.9	6.1			
FM	(30°-60°)	4840.6	29.8			
FH	(60°-80°)	2254.5	13.9			G2/5000
FVH	(80°-90°)	27.5	0.2			G1/100
BL	(0°-30°)	994.9	6.1	B2/1000		
BM	(30°-60°)	4840.6	29.8	B3/5000		
BH	(60°-80°)	2254.5	13.9	B3/2500		G2/5000
BVH	(80°-90°)	27.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1962.3	1962.3	1962.3	1962.3	1962.3	1962.3	1962.3	1962.3	1962.3	1962.3	1962.3
2.5°	1970.0	1974.3	1970.9	1970.0	1969.2	1969.2	1969.2	1970.0	1973.5	1976.0	1974.3
5°	1994.9	1998.4	1996.7	1995.8	1994.9	1995.8	1994.1	1993.2	1995.8	1995.8	1994.9
7.5°	2025.9	2030.2	2028.5	2030.2	2031.1	2031.9	2027.6	2024.2	2023.3	2025.9	2024.2
10°	2068.0	2071.5	2072.3	2073.2	2074.9	2074.1	2068.9	2062.9	2062.0	2061.2	2060.3
12.5°	2115.3	2117.9	2118.8	2122.2	2124.8	2125.7	2119.6	2114.5	2105.9	2107.6	2104.2
15°	2168.6	2173.8	2172.9	2178.1	2185.0	2186.7	2180.7	2172.1	2164.3	2160.0	2157.5
17.5°	2234.0	2237.4	2235.7	2240.9	2249.5	2253.8	2248.6	2237.4	2229.7	2220.2	2215.1
20°	2311.4	2317.4	2319.1	2319.1	2326.9	2331.2	2323.4	2320.0	2307.9	2301.1	2296.8
22.5°	2399.1	2401.7	2406.8	2412.0	2419.7	2418.0	2415.4	2410.3	2399.1	2393.1	2386.2
25°	2498.0	2500.6	2513.5	2524.6	2527.2	2525.5	2522.1	2519.5	2509.2	2495.4	2490.2
27.5°	2613.2	2618.4	2635.6	2645.9	2645.9	2646.7	2639.9	2648.5	2626.1	2609.8	2608.1
30°	2757.7	2761.1	2775.7	2786.0	2780.9	2776.6	2774.9	2783.5	2759.4	2730.2	2723.3
32.5°	2900.4	2912.5	2925.4	2947.7	2929.7	2921.9	2920.2	2926.2	2898.7	2866.0	2856.6
35°	3053.5	3062.1	3086.2	3105.1	3088.7	3070.7	3078.4	3097.3	3064.7	3020.8	3019.1
37.5°	3222.9	3230.6	3261.6	3281.3	3269.3	3238.4	3251.3	3273.6	3240.9	3186.8	3175.6
40°	3399.2	3415.5	3454.2	3474.8	3455.0	3413.8	3437.8	3461.9	3432.7	3369.9	3345.0
42.5°	3596.9	3622.7	3678.6	3688.9	3651.1	3595.2	3637.3	3676.0	3655.4	3583.2	3573.7
45°	3828.2	3843.7	3912.5	3934.9	3882.4	3812.8	3865.2	3935.7	3920.2	3836.8	3818.8
47.5°	4087.1	4101.7	4173.1	4206.6	4140.4	4046.7	4141.2	4233.2	4223.8	4134.4	4125.8
50°	4393.2	4396.6	4495.5	4533.3	4467.1	4386.3	4470.6	4584.9	4547.1	4432.7	4431.0
52.5°	4728.5	4732.8	4857.5	4930.6	4893.6	4802.5	4902.2	4971.9	4875.6	4726.0	4714.8
55°	5019.2	5040.7	5210.9	5405.3	5456.0	5389.8	5419.9	5387.2	5149.9	4940.1	4907.4
57.5°	5137.9	5180.0	5438.8	5801.7	6131.9	6229.9	5997.7	5686.5	5259.1	4962.4	4930.6
60°	4848.1	4893.6	5295.2	5984.0	6826.7	7252.3	6599.7	5737.2	5010.6	4593.5	4543.7
62.5°	3882.4	3895.3	4486.1	5554.9	7231.7	8334.1	6853.3	5304.7	4287.4	3720.8	3701.0
64°	2793.8	2926.2	3552.2	4870.4	7054.6	8746.0	6707.2	4698.4	3482.6	2909.0	2816.1
65°	2089.5	2125.7	2863.4	4159.3	6742.4	8715.0	6423.4	4118.9	2884.1	2226.3	2123.1
67.5°	789.4	793.7	1056.8	2073.2	4799.9	7498.3	4902.2	2240.9	1215.0	878.8	847.0
70°	327.6	333.6	387.8	697.4	2062.9	4814.5	2363.8	808.3	444.6	360.3	355.1
72.5°	239.9	243.3	259.7	309.6	634.6	1976.9	777.3	343.1	260.5	233.0	230.5
75°	188.3	190.0	202.1	227.9	295.8	547.8	323.3	235.6	198.6	178.9	177.1
77.5°	143.6	147.9	156.5	173.7	198.6	259.7	214.1	176.3	153.1	136.7	134.1
80°	98.9	104.0	120.4	127.3	133.3	168.5	146.2	133.3	119.5	99.7	93.7
82.5°	61.1	64.5	80.8	86.8	84.3	94.6	93.7	95.4	85.1	61.9	57.6
85°	31.8	33.5	43.9	45.6	42.1	38.7	48.2	55.9	52.5	35.3	34.4
87.5°	6.9	7.7	9.5	8.6	9.5	9.5	12.0	18.1	18.9	12.0	11.2
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)