

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: P452831

Luminaire Tested: **GALN-SA3D-750-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452831
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-SA3D-750-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24170 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

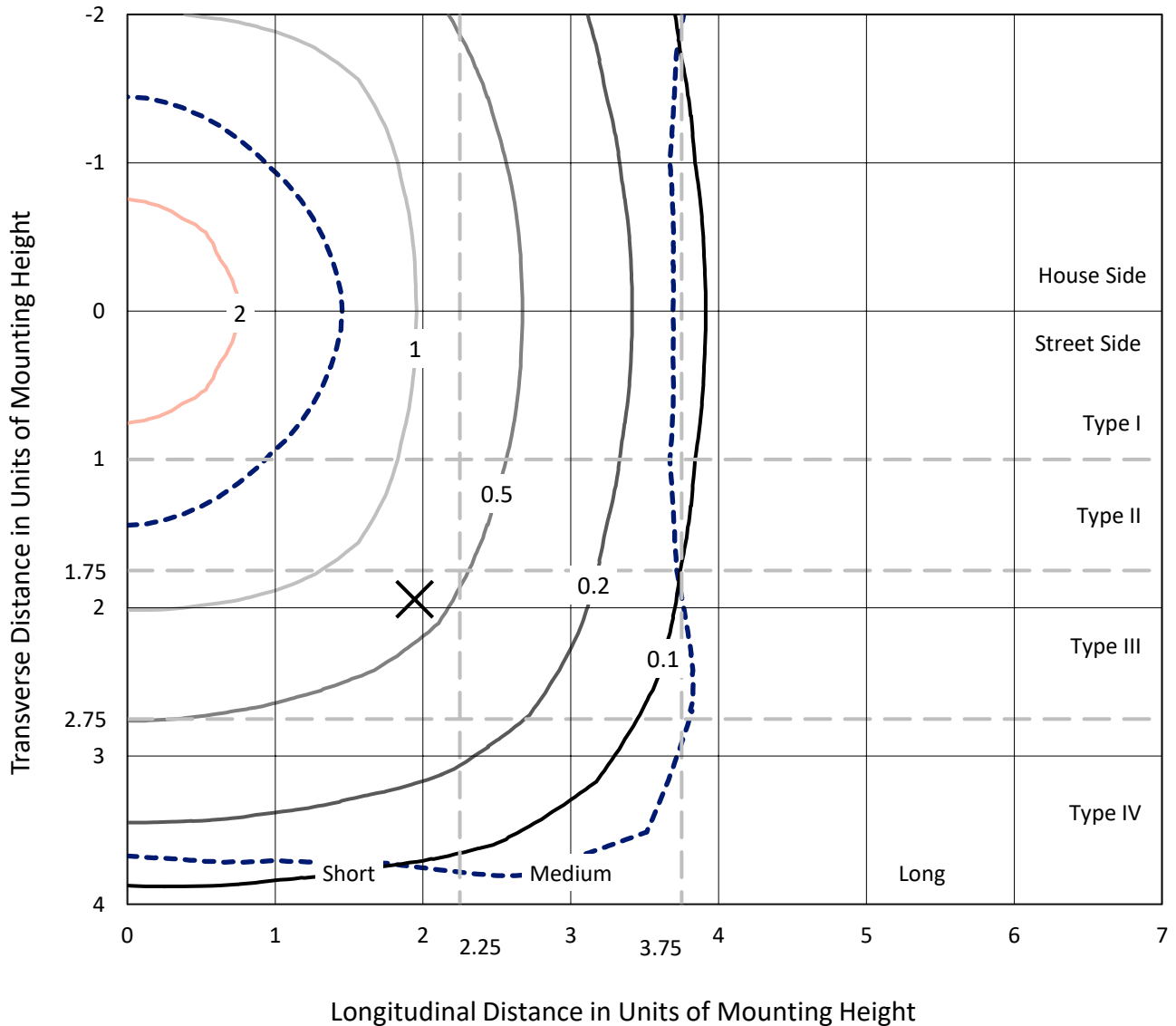
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

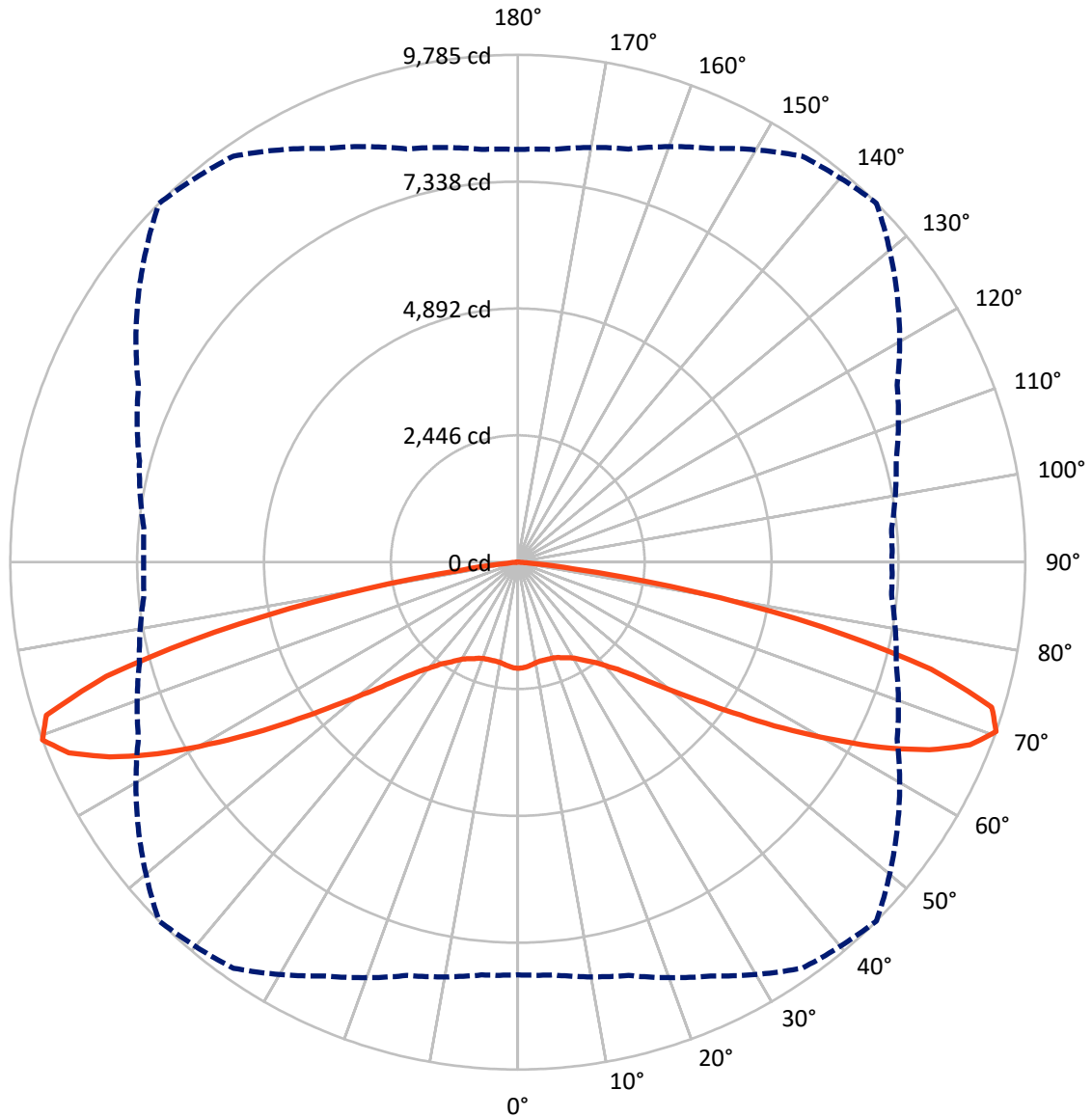
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	12085.0	0.0	12085.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12085.0	0.0	12085.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24170.0	0.0	24170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	0.8
10°-20°	560.2	2.3
20°-30°	954.5	3.9
30°-40°	1479.5	6.1
40°-50°	2490.2	10.3
50°-60°	4530.8	18.7
60°-70°	7670.5	31.7
70°-80°	5937.2	24.6
80°-90°	355.8	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°	24170.0	100.0
0°-180°	24170.0	100.0

Coefficient of Utilization



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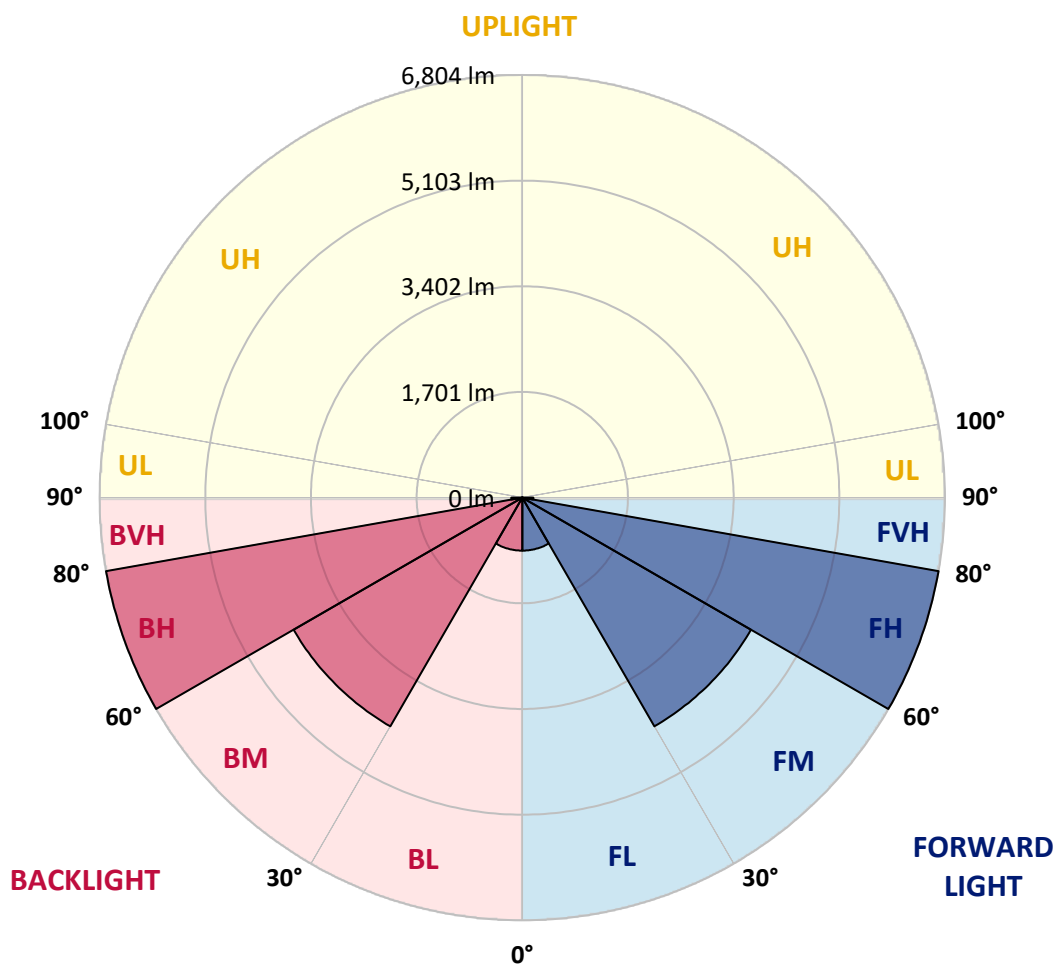
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	853.1	3.5			
FM (30°-60°)	4250.2	17.6			
FH (60°-80°)	6803.8	28.1			G3/7500
FVH (80°-90°)	177.9	0.7			G2/225
BL (0°-30°)	853.1	3.5	B2/1000		
BM (30°-60°)	4250.2	17.6	B3/5000		
BH (60°-80°)	6803.8	28.1	B5		G3/7500
BVH (80°-90°)	177.9	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°	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3
2.5°	2041.2	2042.5	2042.5	2039.9	2038.6	2038.6	2037.4	2037.4	2041.2	2042.5	2043.7
5°	2023.3	2023.3	2023.3	2022.0	2019.5	2019.5	2016.9	2016.9	2018.2	2022.0	2019.5
7.5°	1999.1	2001.6	2001.6	1996.5	1992.7	1992.7	1991.4	1992.7	1993.9	1997.8	1996.5
10°	1991.4	1992.7	1986.3	1977.4	1971.0	1967.1	1968.4	1971.0	1977.4	1979.9	1981.2
12.5°	1996.5	1996.5	1985.0	1972.2	1960.8	1955.7	1954.4	1963.3	1974.8	1982.5	1985.0
15°	2002.9	2000.3	1986.3	1969.7	1958.2	1956.9	1955.7	1962.0	1978.6	1993.9	1995.2
17.5°	2006.7	2005.4	1987.6	1967.1	1960.8	1960.8	1959.5	1964.6	1982.5	2001.6	2002.9
20°	2019.5	2015.6	1995.2	1973.5	1968.4	1971.0	1967.1	1973.5	1992.7	2015.6	2020.8
22.5°	2045.0	2041.2	2020.8	1999.1	1996.5	1996.5	1995.2	2001.6	2022.0	2046.3	2050.1
25°	2075.6	2071.8	2052.7	2037.4	2039.9	2045.0	2042.5	2043.7	2060.3	2080.8	2087.1
27.5°	2116.5	2110.1	2093.5	2080.8	2088.4	2088.4	2088.4	2087.1	2097.3	2116.5	2122.9
30°	2166.3	2163.7	2145.9	2144.6	2151.0	2144.6	2144.6	2145.9	2147.1	2165.0	2171.4
32.5°	2231.4	2226.3	2217.3	2214.8	2232.7	2237.8	2219.9	2203.3	2212.2	2230.1	2233.9
35°	2338.6	2331.0	2318.2	2304.1	2318.2	2342.4	2304.1	2291.4	2314.4	2338.6	2341.2
37.5°	2484.1	2480.3	2459.9	2434.4	2433.1	2458.6	2419.0	2417.8	2461.2	2490.5	2494.4
40°	2666.7	2670.5	2645.0	2620.7	2608.0	2628.4	2597.7	2609.2	2651.4	2684.6	2682.0
42.5°	2923.3	2909.2	2869.7	2846.7	2832.6	2825.0	2817.3	2835.2	2882.4	2918.2	2946.2
45°	3223.3	3218.1	3168.4	3140.3	3109.6	3098.2	3095.6	3127.5	3185.0	3228.4	3232.2
47.5°	3562.8	3551.3	3519.4	3490.0	3478.6	3464.5	3451.8	3476.0	3533.5	3564.1	3573.0
50°	3912.6	3915.1	3915.1	3910.0	3921.5	3924.1	3889.6	3898.5	3930.5	3927.9	3925.3
52.5°	4312.1	4326.2	4392.6	4398.9	4453.8	4490.9	4428.3	4391.3	4379.8	4310.9	4316.0
55°	4781.9	4794.7	4894.2	4993.8	5141.9	5204.4	5073.0	4958.1	4876.4	4771.7	4776.8
57.5°	5367.8	5374.2	5468.7	5660.2	5895.0	6041.8	5810.8	5583.6	5417.6	5318.0	5278.5
60°	5998.4	6004.8	6142.7	6376.3	6741.4	6920.1	6634.2	6262.7	6053.3	5901.4	5911.6
62.5°	6755.4	6781.0	6904.8	7226.5	7669.4	7869.8	7490.7	6994.1	6710.7	6521.8	6529.5
65°	7566.0	7609.4	7744.7	8098.3	8506.8	8722.6	8257.9	7684.7	7332.4	7101.4	7125.6
67.5°	8092.0	8130.3	8325.6	8716.2	9225.5	9404.2	8804.3	8136.6	7696.2	7420.5	7369.4
70°	7957.9	7989.8	8250.2	8804.3	9558.7	9784.6	8934.5	8070.3	7552.0	7234.1	7213.7
72.5°	7024.8	6958.4	7338.8	8134.1	9178.3	9557.4	8524.7	7370.7	6718.4	6391.6	6353.3
75°	4655.5	4799.8	5361.4	6298.4	7765.2	8234.9	7276.3	5918.0	5097.2	4825.3	4783.2
77.5°	1556.1	1667.2	2166.3	3570.5	5293.8	5999.7	5301.5	3870.5	2738.2	2205.9	2216.1
80°	412.3	407.2	527.2	981.7	2287.6	3474.7	2662.9	1311.0	717.4	519.5	492.7
82.5°	148.1	165.9	213.2	271.9	606.4	1079.9	762.1	367.6	269.3	199.1	192.8
85°	65.1	63.8	91.9	108.5	151.9	201.7	178.7	155.7	136.6	90.6	84.3
87.5°	14.0	14.0	21.7	16.6	26.8	26.8	33.2	39.6	40.8	26.8	21.7
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)