

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: P453817

Luminaire Tested: **GALN-SA4D-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453817
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-SA4D-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 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: 23545 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

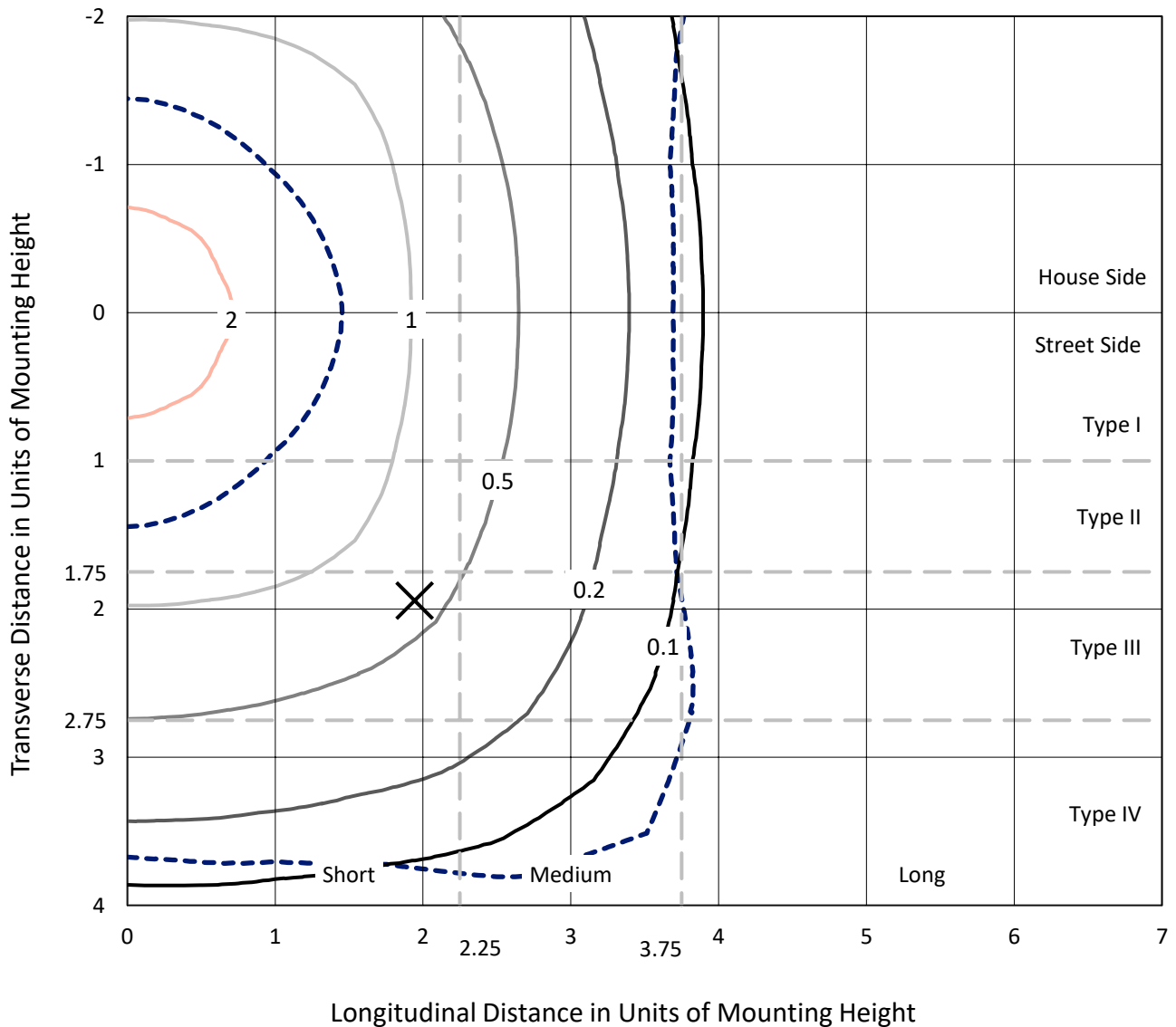
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

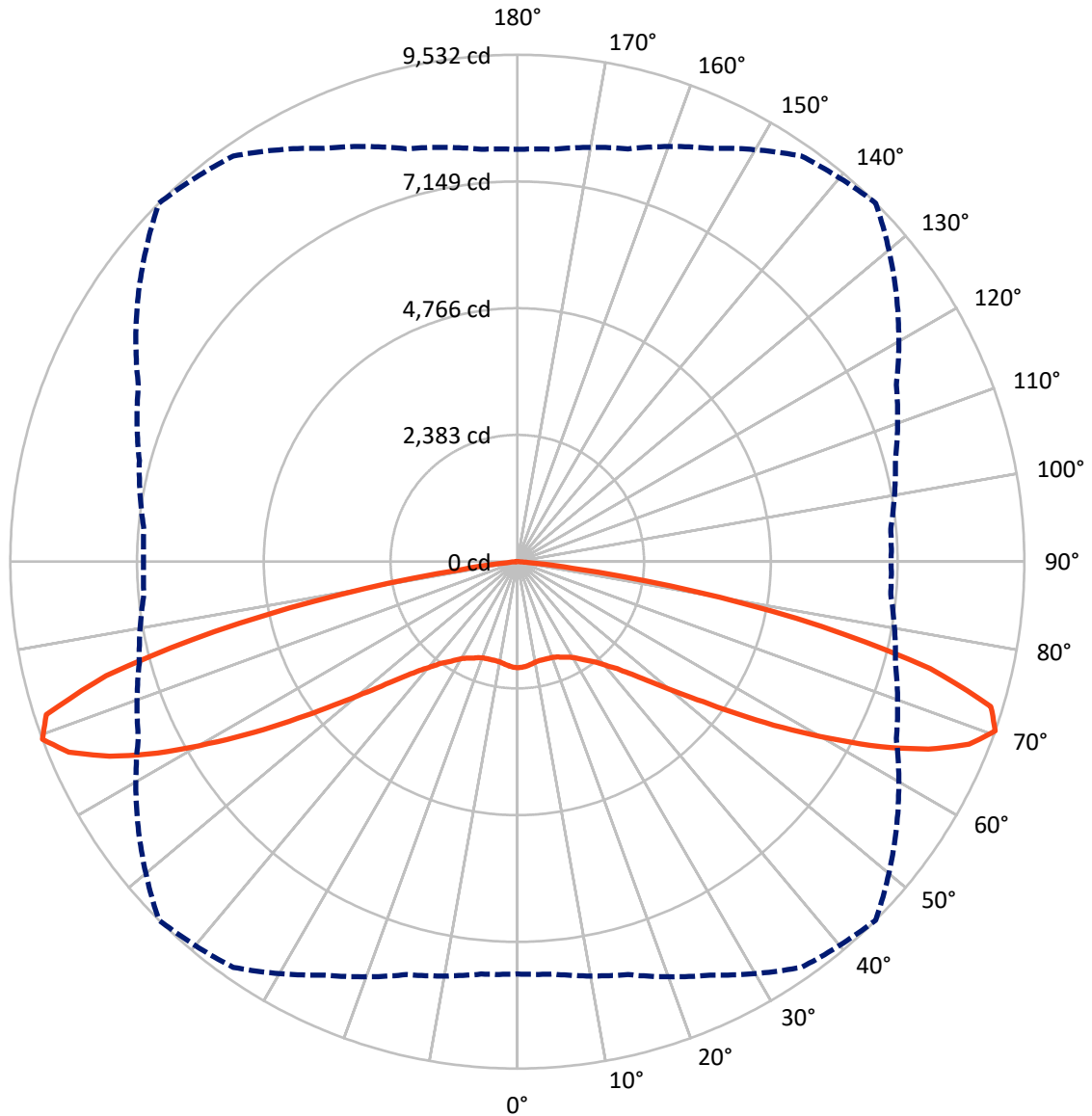
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	11772.5	0.0	11772.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11772.5	0.0	11772.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23545.0	0.0	23545.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	0.8
10°-20°	545.7	2.3
20°-30°	929.8	3.9
30°-40°	1441.2	6.1
40°-50°	2425.8	10.3
50°-60°	4413.6	18.7
60°-70°	7472.1	31.7
70°-80°	5783.7	24.6
80°-90°	346.6	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°	23545.0	100.0
0°-180°	23545.0	100.0



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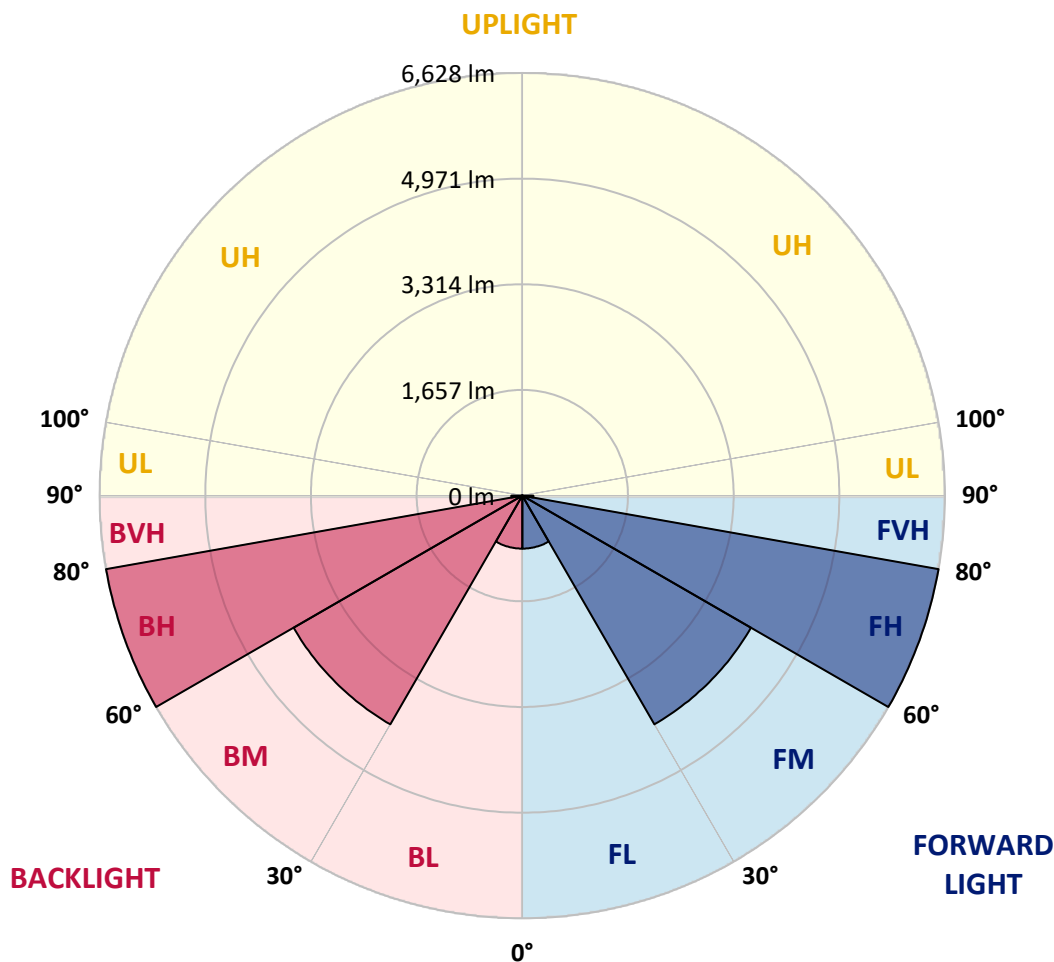
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	831.0	3.5			
FM (30°-60°)	4140.3	17.6			
FH (60°-80°)	6627.9	28.1			G3/7500
FVH (80°-90°)	173.3	0.7			G2/225
BL (0°-30°)	831.0	3.5	B2/1000		
BM (30°-60°)	4140.3	17.6	B3/5000		
BH (60°-80°)	6627.9	28.1	B5		G3/7500
BVH (80°-90°)	173.3	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°	1993.4	1993.4	1993.4	1993.4	1993.4	1993.4	1993.4	1993.4	1993.4	1993.4	1993.4
2.5°	1988.4	1989.6	1989.6	1987.2	1985.9	1985.9	1984.7	1984.7	1988.4	1989.6	1990.9
5°	1971.0	1971.0	1971.0	1969.7	1967.3	1967.3	1964.8	1964.8	1966.0	1969.7	1967.3
7.5°	1947.4	1949.8	1949.8	1944.9	1941.1	1941.1	1939.9	1941.1	1942.4	1946.1	1944.9
10°	1939.9	1941.1	1934.9	1926.2	1920.0	1916.3	1917.5	1920.0	1926.2	1928.7	1930.0
12.5°	1944.9	1944.9	1933.7	1921.2	1910.1	1905.1	1903.8	1912.5	1923.7	1931.2	1933.7
15°	1951.1	1948.6	1934.9	1918.8	1907.6	1906.3	1905.1	1911.3	1927.5	1942.4	1943.6
17.5°	1954.8	1953.6	1936.2	1916.3	1910.1	1910.1	1908.8	1913.8	1931.2	1949.8	1951.1
20°	1967.3	1963.5	1943.6	1922.5	1917.5	1920.0	1916.3	1922.5	1941.1	1963.5	1968.5
22.5°	1992.1	1988.4	1968.5	1947.4	1944.9	1944.9	1943.6	1949.8	1969.7	1993.4	1997.1
25°	2022.0	2018.2	1999.6	1984.7	1987.2	1992.1	1989.6	1990.9	2007.1	2026.9	2033.2
27.5°	2061.8	2055.5	2039.4	2026.9	2034.4	2034.4	2034.4	2033.2	2043.1	2061.8	2068.0
30°	2110.3	2107.8	2090.4	2089.1	2095.3	2089.1	2089.1	2090.4	2091.6	2109.0	2115.2
32.5°	2173.7	2168.7	2160.0	2157.5	2174.9	2179.9	2162.5	2146.3	2155.0	2172.4	2176.2
35°	2278.1	2270.7	2258.2	2244.6	2258.2	2281.9	2244.6	2232.1	2254.5	2278.1	2280.6
37.5°	2419.9	2416.2	2396.3	2371.4	2370.2	2395.0	2356.5	2355.2	2397.5	2426.1	2429.9
40°	2597.7	2601.5	2576.6	2553.0	2540.5	2560.4	2530.6	2541.8	2582.8	2615.1	2612.6
42.5°	2847.7	2834.0	2795.4	2773.1	2759.4	2751.9	2744.5	2761.9	2807.9	2842.7	2870.1
45°	3139.9	3134.9	3086.4	3059.1	3029.2	3018.0	3015.6	3046.6	3102.6	3144.9	3148.6
47.5°	3470.7	3459.5	3428.4	3399.8	3388.6	3374.9	3362.5	3386.1	3442.1	3471.9	3480.6
50°	3811.4	3813.9	3813.9	3808.9	3820.1	3822.6	3789.0	3797.7	3828.8	3826.3	3823.8
52.5°	4200.6	4214.3	4279.0	4285.2	4338.7	4374.7	4313.8	4277.7	4266.5	4199.4	4204.4
55°	4658.2	4670.7	4767.7	4864.7	5008.9	5069.9	4941.8	4829.9	4750.3	4648.3	4653.3
57.5°	5229.0	5235.2	5327.3	5513.8	5742.6	5885.6	5660.5	5439.2	5277.5	5180.5	5142.0
60°	5843.3	5849.5	5983.8	6211.4	6567.1	6741.2	6462.6	6100.7	5896.8	5748.8	5758.8
62.5°	6580.7	6605.6	6726.2	7039.6	7471.1	7666.3	7297.0	6813.3	6537.2	6353.2	6360.6
65°	7370.4	7412.7	7544.5	7888.9	8286.9	8497.0	8044.4	7486.0	7142.8	6917.7	6941.4
67.5°	7882.7	7920.0	8110.3	8490.8	8987.0	9161.1	8576.6	7926.2	7497.2	7228.6	7178.9
70°	7752.1	7783.2	8036.9	8576.6	9311.5	9531.6	8703.4	7861.6	7356.7	7047.1	7027.2
72.5°	6843.1	6778.5	7149.0	7923.7	8941.0	9310.3	8304.3	7180.1	6544.7	6226.3	6189.0
75°	4535.1	4675.7	5222.8	6135.6	7564.4	8022.0	7088.1	5765.0	4965.4	4700.5	4659.5
77.5°	1515.9	1624.0	2110.3	3478.1	5156.9	5844.6	5164.4	3770.4	2667.4	2148.8	2158.8
80°	401.7	396.7	513.6	956.3	2228.4	3384.9	2594.0	1277.1	698.9	506.1	480.0
82.5°	144.2	161.7	207.7	264.9	590.7	1052.0	742.4	358.1	262.4	194.0	187.8
85°	63.4	62.2	89.5	105.7	148.0	196.5	174.1	151.7	133.1	88.3	82.1
87.5°	13.7	13.7	21.1	16.2	26.1	26.1	32.3	38.5	39.8	26.1	21.1
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)