

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: P452887

Luminaire Tested: **GALN-SA3D-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17805 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

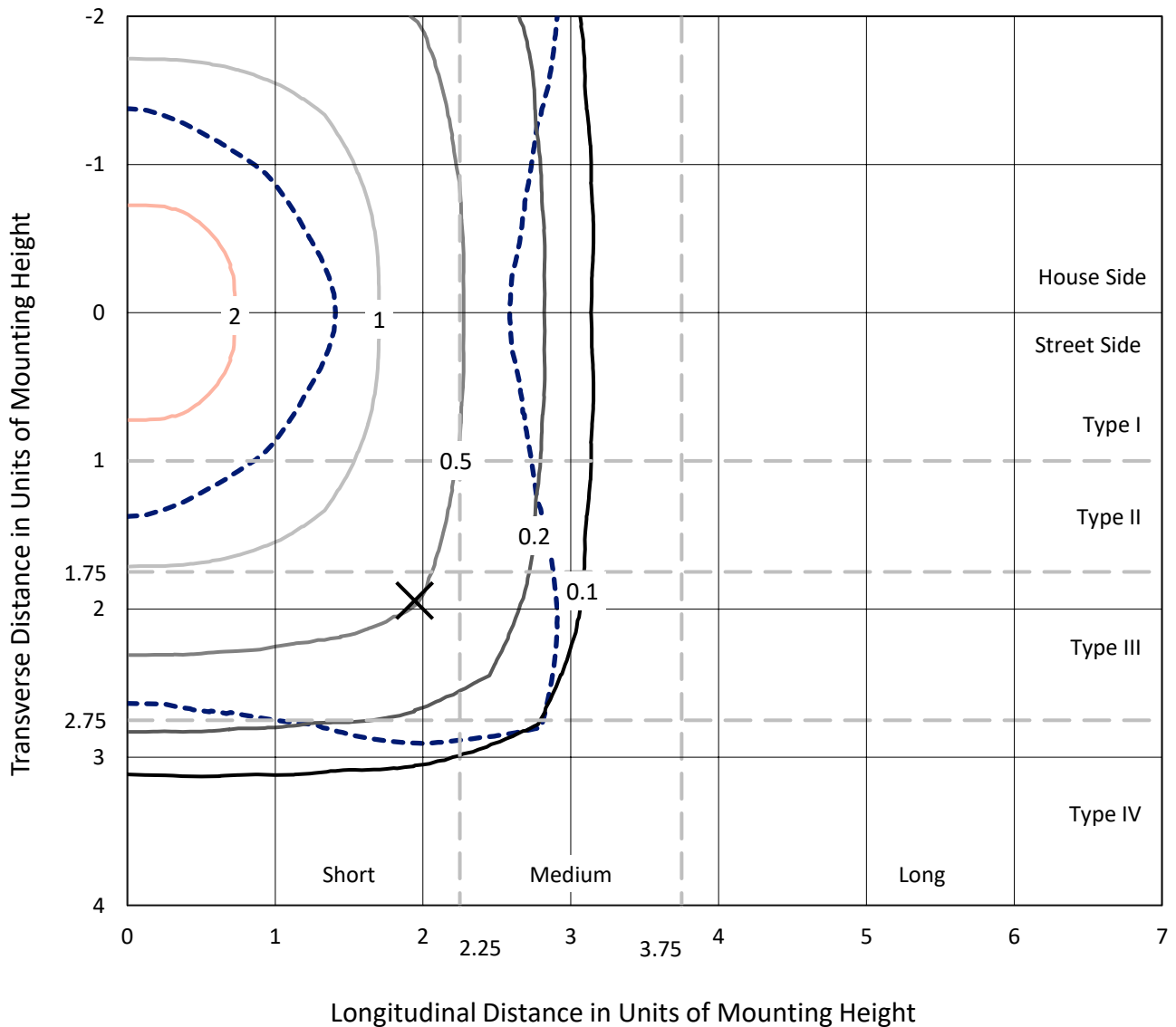
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

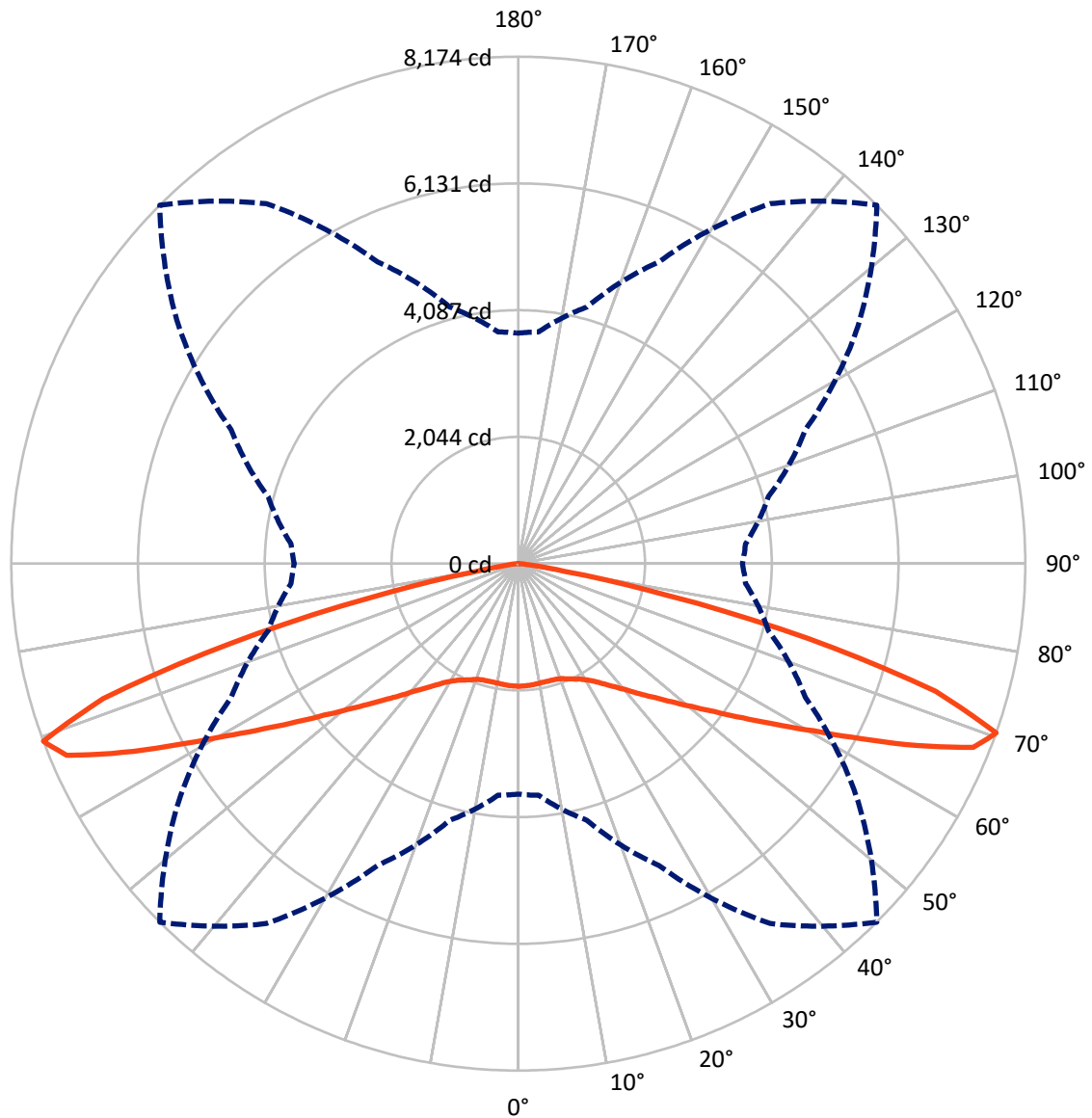
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	8902.5	0.0	8902.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8902.5	0.0	8902.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17805.0	0.0	17805.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.5	1.1
10°-20°	550.2	3.1
20°-30°	941.0	5.3
30°-40°	1493.5	8.4
40°-50°	2409.5	13.5
50°-60°	3920.2	22.0
60°-70°	5682.9	31.9
70°-80°	2520.8	14.2
80°-90°	99.4	0.6
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°	17805.0	100.0
0°-180°	17805.0	100.0



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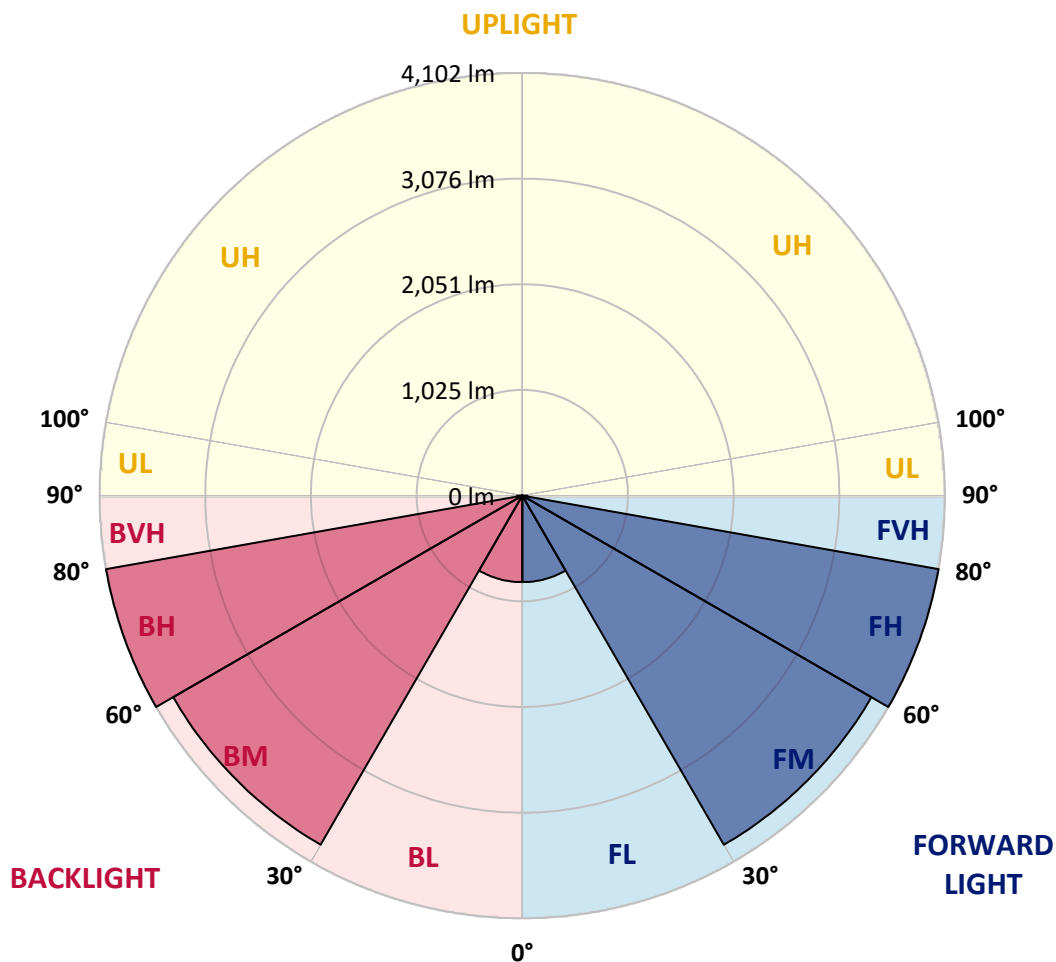
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	839.3	4.7			
FM	(30°-60°)	3911.6	22.0			
FH	(60°-80°)	4101.8	23.0			G2/5000
FVH	(80°-90°)	49.7	0.3			G1/100
BL	(0°-30°)	839.3	4.7	B2/1000		
BM	(30°-60°)	3911.6	22.0	B3/5000		
BH	(60°-80°)	4101.8	23.0	B4/5000		G2/5000
BVH	(80°-90°)	49.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2
2.5°	1977.2	1979.0	1976.2	1974.3	1973.4	1973.4	1972.5	1973.4	1979.0	1980.0	1977.2
5°	1971.5	1973.4	1972.5	1970.6	1969.7	1969.7	1968.7	1967.8	1972.5	1974.3	1973.4
7.5°	1964.0	1965.0	1964.0	1963.1	1964.0	1963.1	1960.3	1958.4	1962.1	1962.1	1961.2
10°	1950.9	1952.8	1951.8	1952.8	1954.6	1954.6	1950.9	1947.1	1948.1	1946.2	1946.2
12.5°	1934.9	1937.7	1938.7	1942.4	1947.1	1952.8	1944.3	1935.9	1934.0	1933.1	1932.1
15°	1924.6	1927.4	1931.2	1934.9	1943.4	1955.6	1943.4	1930.2	1926.5	1922.7	1920.9
17.5°	1921.8	1925.6	1931.2	1936.8	1948.1	1960.3	1949.9	1936.8	1927.4	1921.8	1919.9
20°	1929.3	1932.1	1940.6	1950.9	1966.8	1979.0	1968.7	1954.6	1940.6	1932.1	1929.3
22.5°	1944.3	1949.0	1959.3	1978.1	2000.6	2018.4	2004.4	1980.9	1958.4	1947.1	1943.4
25°	1977.2	1980.9	1993.1	2018.4	2044.7	2061.6	2046.6	2019.4	1988.4	1973.4	1968.7
27.5°	2026.9	2032.5	2045.7	2075.7	2097.3	2106.7	2096.3	2077.6	2055.0	2039.1	2035.3
30°	2097.3	2103.8	2123.5	2155.5	2169.5	2175.2	2170.5	2158.3	2142.3	2125.4	2121.7
32.5°	2192.0	2195.8	2218.3	2248.4	2261.5	2263.4	2257.7	2252.1	2225.8	2197.7	2195.8
35°	2298.1	2304.7	2331.9	2367.5	2379.7	2380.7	2369.4	2361.0	2330.0	2307.5	2307.5
37.5°	2438.8	2441.7	2467.9	2508.3	2521.4	2517.7	2512.0	2504.5	2471.7	2442.6	2443.5
40°	2604.0	2609.6	2632.1	2679.1	2679.1	2674.4	2678.1	2672.5	2639.7	2611.5	2612.4
42.5°	2800.1	2802.9	2830.1	2879.9	2876.1	2866.7	2870.5	2863.0	2842.3	2810.4	2799.2
45°	3009.4	3020.6	3067.6	3115.4	3107.9	3077.9	3092.9	3091.0	3072.2	3024.4	3027.2
47.5°	3261.8	3280.6	3325.6	3382.9	3374.4	3327.5	3344.4	3355.6	3329.4	3276.8	3267.4
50°	3546.1	3558.3	3625.0	3678.4	3670.9	3621.2	3659.7	3661.5	3595.9	3521.7	3521.7
52.5°	3849.2	3861.4	3951.5	4035.0	4039.7	3967.5	3998.4	3996.5	3889.6	3792.0	3773.2
55°	4188.9	4194.5	4310.9	4433.8	4460.1	4389.7	4393.5	4355.9	4217.1	4103.5	4093.2
57.5°	4539.9	4560.5	4689.1	4848.6	4926.5	4883.3	4863.6	4763.2	4629.0	4498.6	4492.0
60°	4928.4	4929.3	5096.3	5284.9	5442.6	5471.7	5391.0	5256.8	5083.2	4910.5	4903.0
62.5°	5197.7	5238.0	5449.2	5768.2	6050.7	6213.9	6000.9	5719.4	5377.8	5099.1	5071.0
65°	5253.0	5280.3	5602.1	6142.6	6719.7	7071.6	6579.0	5980.3	5397.5	5025.9	5007.2
67.5°	4805.4	4834.5	5268.1	6097.6	7188.9	7910.5	6954.3	5854.5	5063.5	4603.7	4567.1
70°	3716.9	3749.8	4285.6	5367.5	7084.7	8174.2	6686.9	5106.7	4175.8	3679.4	3612.8
72.5°	1976.2	2097.3	2555.2	3684.1	5750.4	7037.8	5482.9	3726.3	2693.1	2201.4	2113.2
75°	721.6	736.6	991.9	1633.7	3345.3	4826.1	3473.9	1777.3	1021.9	789.2	748.8
77.5°	298.4	297.5	326.6	493.6	1215.2	2471.7	1356.0	521.7	325.6	301.2	297.5
80°	176.4	176.4	194.2	205.5	320.0	746.0	357.5	232.7	195.2	178.3	181.1
82.5°	78.8	83.5	122.9	129.5	154.8	204.6	172.7	148.3	127.6	88.2	79.8
85°	43.2	37.5	64.7	67.6	74.1	76.0	81.6	80.7	74.1	43.2	44.1
87.5°	8.4	10.3	18.8	14.1	16.0	14.1	18.8	26.3	27.2	15.0	12.2
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)