

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: P531813

Luminaire Tested: **GALN-SA7A-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12214 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

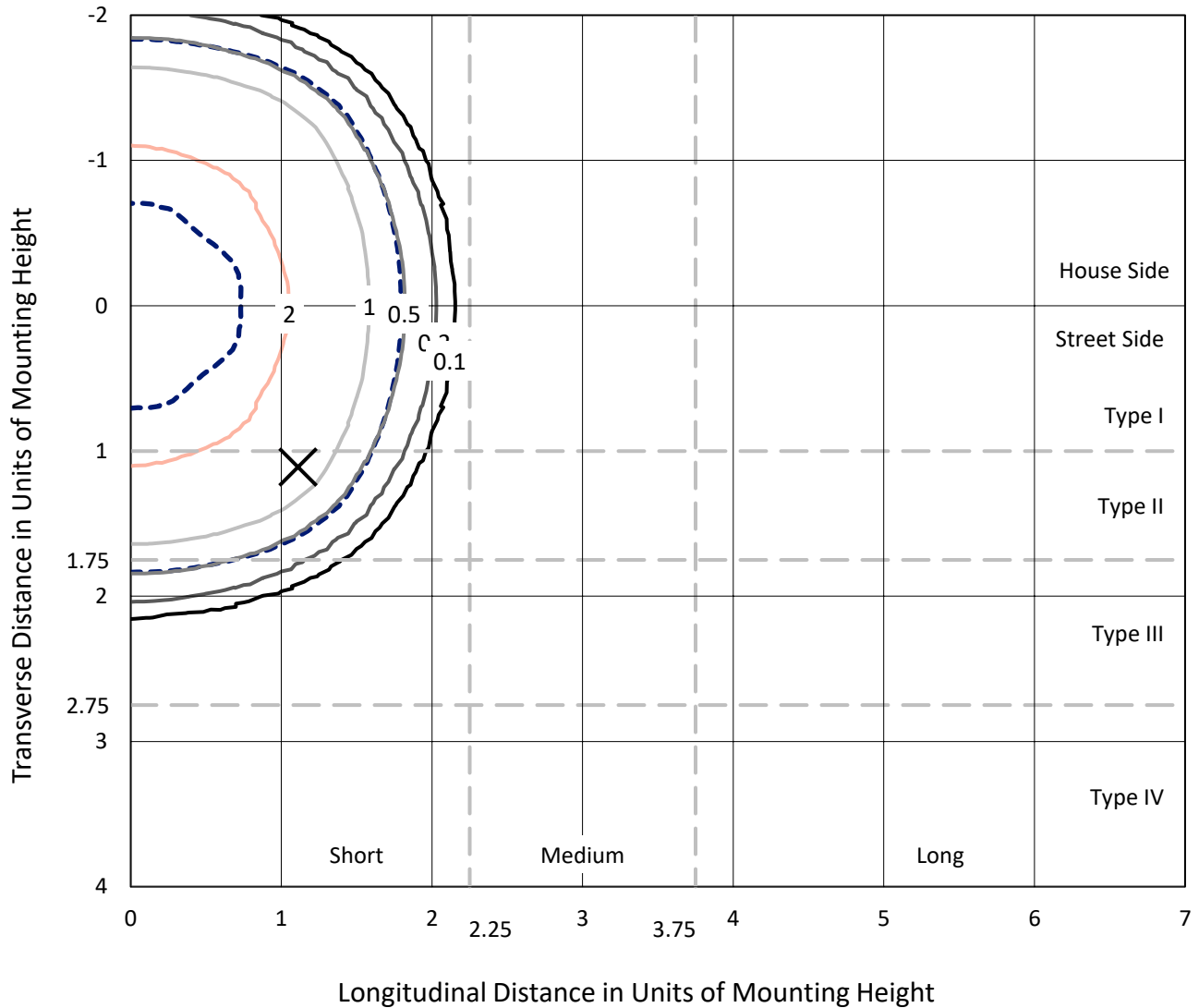
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

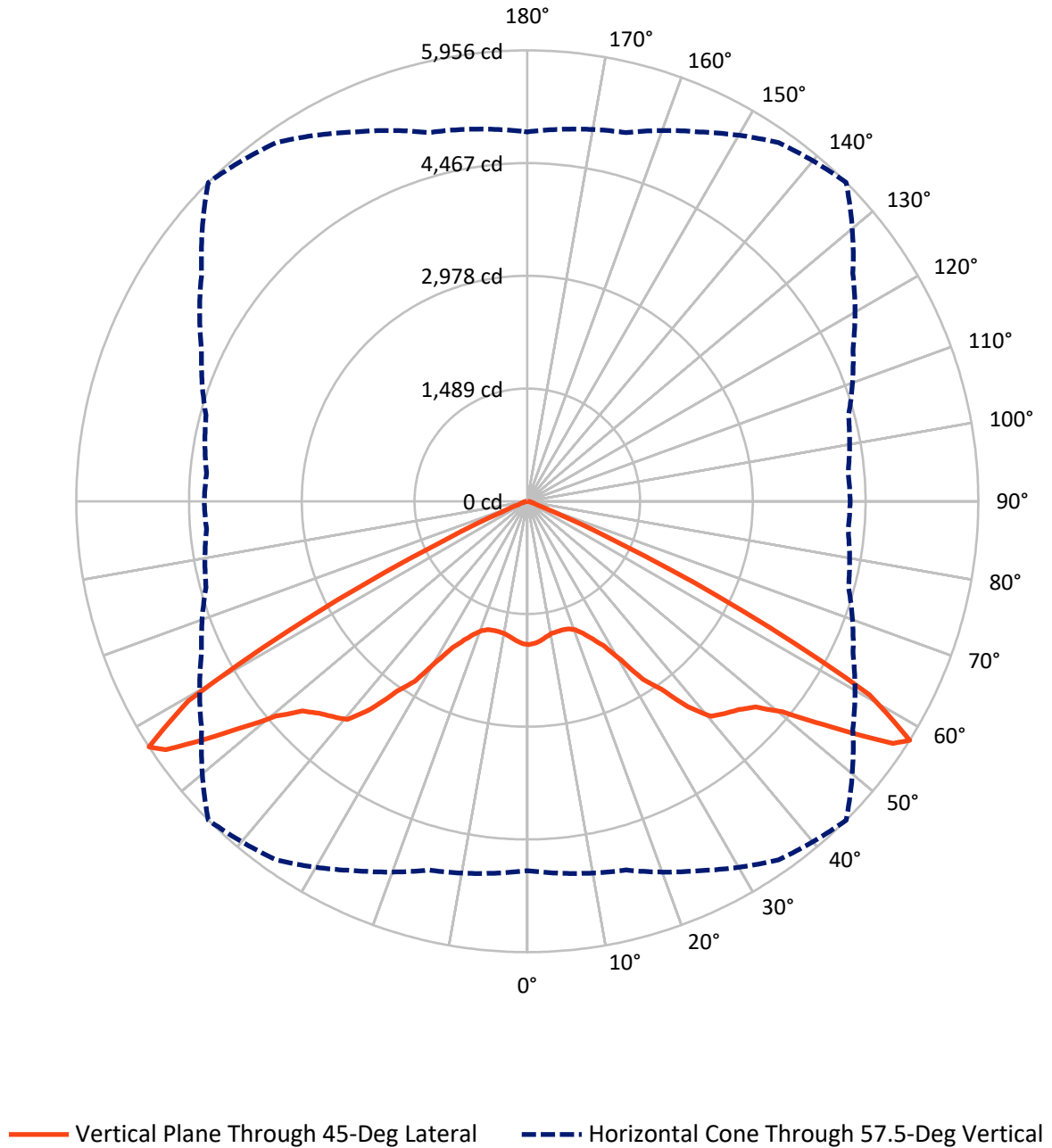
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6107.0	0.0	6107.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6107.0	0.0	6107.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12214.0	0.0	12214.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	1.4
10°-20°	503.2	4.1
20°-30°	928.9	7.6
30°-40°	1826.7	15.0
40°-50°	2975.3	24.4
50°-60°	4243.1	34.7
60°-70°	1469.1	12.0
70°-80°	78.8	0.6
80°-90°	14.8	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°	12214.0	100.0
0°-180°	12214.0	100.0

Coefficient of Utilization

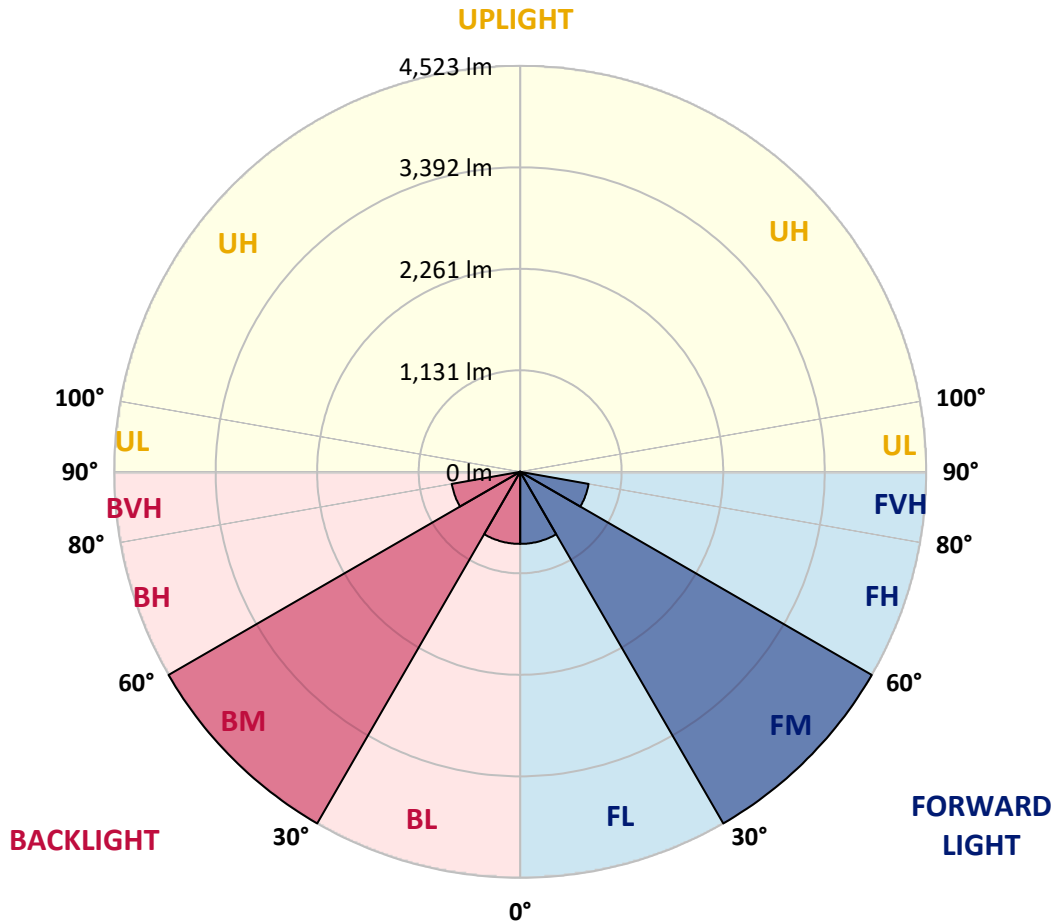


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.1	6.6			
FM (30°-60°)	4522.6	37.0			
FH (60°-80°)	773.9	6.3			G1/1800
FVH (80°-90°)	7.4	0.1			G0/10
BL (0°-30°)	803.1	6.6	B2/1000		
BM (30°-60°)	4522.6	37.0	B3/5000		
BH (60°-80°)	773.9	6.3	B2/1000		G1/1800
BVH (80°-90°)	7.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1894.5	1894.5	1894.5	1894.5	1894.5	1894.5	1894.5	1894.5	1894.5	1894.5	1894.5
2.5°	1889.4	1899.6	1886.9	1881.8	1879.2	1879.2	1871.6	1871.6	1869.1	1871.6	1861.4
5°	1858.9	1869.1	1869.1	1866.5	1851.2	1848.7	1841.0	1836.0	1838.5	1828.3	1836.0
7.5°	1828.3	1836.0	1825.8	1823.2	1818.1	1807.9	1805.4	1782.5	1785.0	1785.0	1790.1
10°	1823.2	1820.7	1805.4	1792.7	1777.4	1774.8	1767.2	1762.1	1762.1	1759.6	1767.2
12.5°	1823.2	1810.5	1807.9	1779.9	1754.5	1764.7	1744.3	1731.5	1749.4	1754.5	1764.7
15°	1820.7	1833.4	1790.1	1777.4	1759.6	1762.1	1744.3	1731.5	1741.7	1746.8	1754.5
17.5°	1836.0	1828.3	1815.6	1790.1	1782.5	1772.3	1749.4	1739.2	1739.2	1751.9	1754.5
20°	1876.7	1856.3	1830.9	1818.1	1825.8	1813.0	1785.0	1746.8	1757.0	1767.2	1774.8
22.5°	1914.9	1899.6	1881.8	1874.1	1917.4	1897.1	1848.7	1805.4	1790.1	1807.9	1820.7
25°	1988.7	1988.7	1955.6	1965.8	2014.2	2016.7	1960.7	1884.3	1874.1	1881.8	1886.9
27.5°	2139.0	2146.6	2118.6	2128.8	2149.2	2167.0	2118.6	2054.9	2032.0	2029.5	2037.1
30°	2301.9	2317.2	2314.7	2358.0	2416.5	2426.7	2355.4	2251.0	2182.3	2169.5	2179.7
32.5°	2515.8	2523.5	2518.4	2569.3	2727.2	2801.0	2615.1	2467.5	2375.8	2398.7	2375.8
35°	2918.2	2910.5	2854.5	2864.7	2994.6	3048.0	2869.8	2775.6	2732.3	2778.1	2767.9
37.5°	3264.5	3236.5	3190.6	3256.8	3391.8	3440.2	3254.3	3088.8	3009.8	3086.2	3119.3
40°	3557.3	3486.0	3422.4	3488.6	3669.4	3735.6	3463.1	3328.1	3297.6	3353.6	3424.9
42.5°	3804.3	3758.5	3674.5	3679.5	3799.2	3829.8	3610.8	3531.9	3501.3	3590.4	3626.1
45°	3980.0	3936.7	3857.8	3852.7	3944.4	3924.0	3727.9	3674.5	3692.3	3750.8	3768.7
47.5°	4069.1	4092.1	4046.2	4059.0	4107.3	4059.0	3903.6	3903.6	3862.9	3898.5	3880.7
50°	4326.3	4255.0	4313.6	4313.6	4364.5	4369.6	4214.3	4158.3	4048.8	3987.7	3987.7
52.5°	4626.8	4631.9	4654.8	4738.8	4825.4	4899.3	4677.7	4438.4	4255.0	4176.1	4165.9
55°	4873.8	4924.7	5016.4	5174.3	5423.8	5525.7	5143.7	4715.9	4491.8	4369.6	4344.2
56°	5008.8	4960.4	5118.3	5334.7	5660.6	5793.1	5220.1	4771.9	4524.9	4387.4	4384.9
57.5°	4878.9	4932.4	5041.9	5383.1	5782.9	5956.0	5248.1	4746.5	4392.5	4252.5	4265.2
60°	3852.7	3903.6	4051.3	4433.3	5059.7	5194.6	4440.9	3913.8	3598.1	3396.9	3399.4
62.5°	2179.7	2217.9	2332.5	2686.4	3076.0	3205.9	2767.9	2416.5	2197.5	2085.5	2049.8
65°	802.1	786.8	804.7	985.5	1224.8	1334.3	1151.0	972.7	858.1	817.4	802.1
67.5°	300.5	277.6	259.7	277.6	348.9	369.2	338.7	282.7	264.8	272.5	277.6
70°	185.9	175.7	140.1	132.4	129.9	127.3	135.0	142.6	163.0	191.0	196.1
72.5°	129.9	122.2	99.3	94.2	89.1	86.6	99.3	109.5	127.3	147.7	150.2
75°	50.9	53.5	50.9	56.0	58.6	61.1	71.3	78.9	86.6	86.6	84.0
77.5°	10.2	10.2	15.3	20.4	25.5	33.1	48.4	56.0	58.6	56.0	48.4
80°	0.0	0.0	5.1	10.2	20.4	28.0	43.3	48.4	53.5	48.4	38.2
82.5°	0.0	0.0	5.1	12.7	20.4	25.5	40.7	50.9	58.6	53.5	40.7
85°	0.0	0.0	5.1	10.2	15.3	17.8	17.8	12.7	12.7	7.6	5.1
87.5°	0.0	0.0	0.0	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)