

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: P316279

Luminaire Tested: **GLEON-SA5B-827-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5B-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22116 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

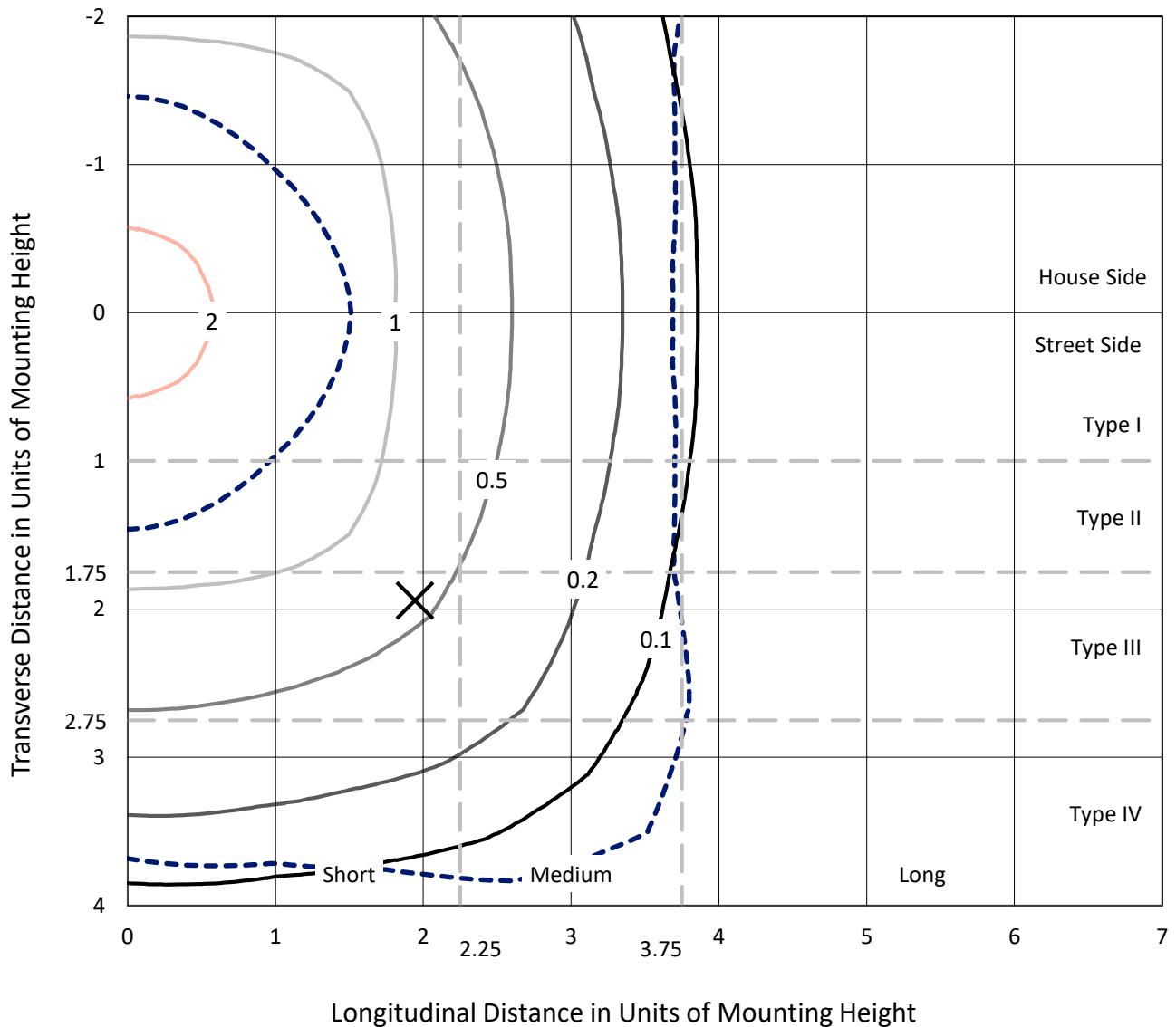
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GLEON-SA5B-827-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

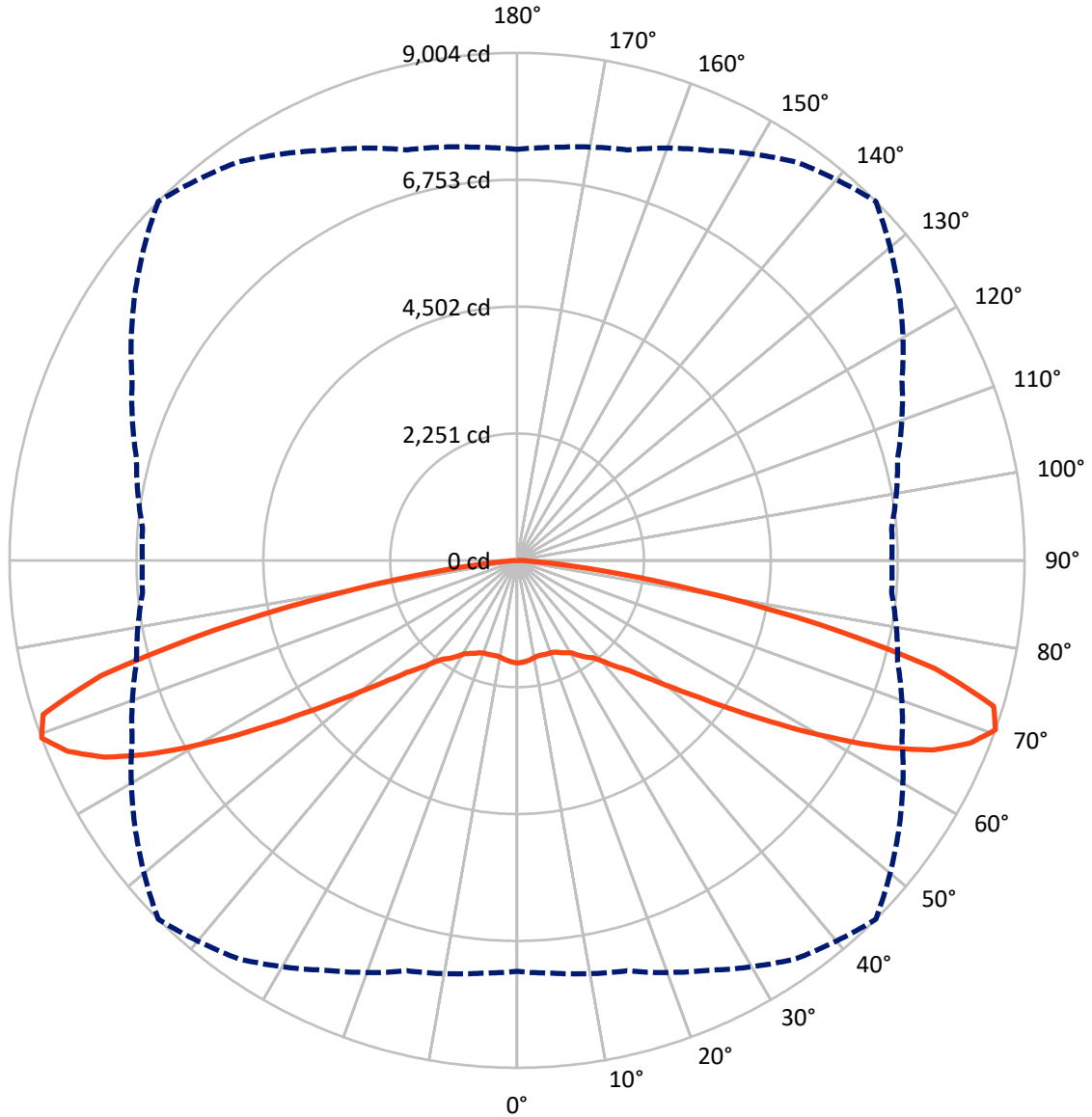
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

REPORT NUMBER: P316279
CATALOG NUMBER: GLEON-SA5B-827-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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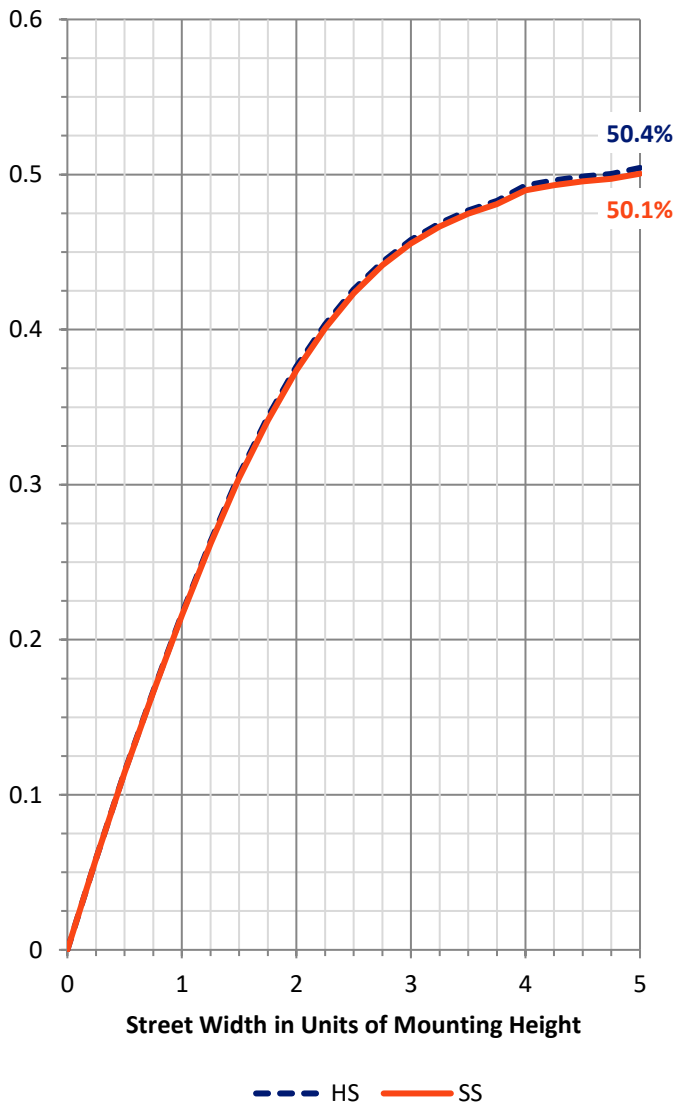
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11058.0	0.0	11058.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11058.0	0.0	11058.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22116.0	0.0	22116.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	0.8
10°-20°	496.2	2.2
20°-30°	846.0	3.8
30°-40°	1322.0	6.0
40°-50°	2240.4	10.1
50°-60°	4085.6	18.5
60°-70°	7033.7	31.8
70°-80°	5513.3	24.9
80°-90°	408.8	1.8
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°	22116.0	100.0
0°-180°	22116.0	100.0



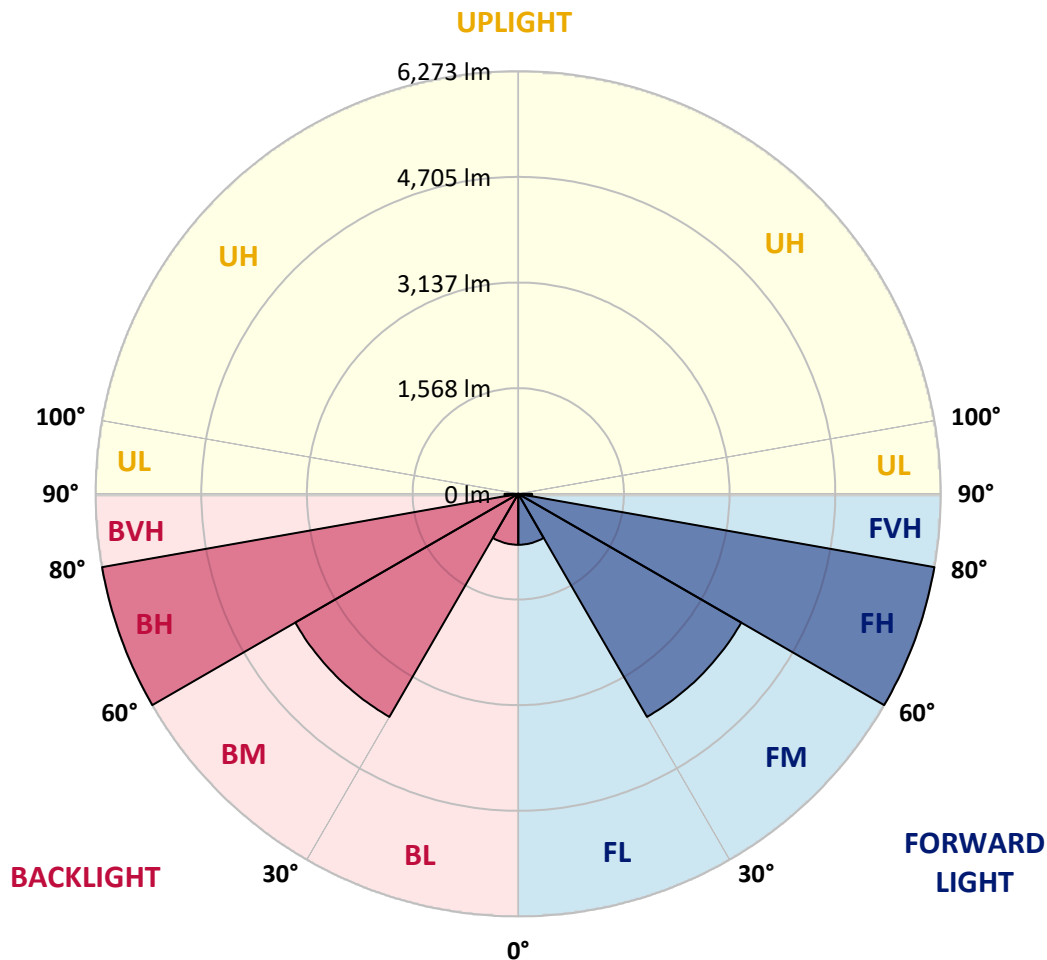
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 CATALOG NUMBER: GLEON-SA5B-827-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	756.1	3.4			
FM (30°-60°)	3824.0	17.3			
FH (60°-80°)	6273.5	28.4			G3/7500
FVH (80°-90°)	204.4	0.9			G2/225
BL (0°-30°)	756.1	3.4	B2/1000		
BM (30°-60°)	3824.0	17.3	B3/5000		
BH (60°-80°)	6273.5	28.4	B5		G3/7500
BVH (80°-90°)	204.4	0.9			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°	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1
2.5°	1812.1	1814.3	1812.1	1813.6	1809.9	1811.4	1811.4	1811.4	1810.6	1811.4	1809.9
5°	1796.0	1797.5	1794.5	1796.0	1793.8	1796.0	1796.7	1796.0	1794.5	1795.3	1792.4
7.5°	1771.9	1773.3	1771.1	1773.3	1770.4	1774.1	1773.3	1771.1	1768.9	1768.9	1766.0
10°	1758.7	1759.4	1753.6	1751.4	1744.8	1746.3	1748.5	1750.7	1752.8	1757.2	1756.5
12.5°	1759.4	1759.4	1750.7	1741.1	1731.6	1733.8	1737.5	1745.5	1754.3	1762.4	1763.1
15°	1766.7	1766.0	1752.8	1737.5	1730.9	1737.5	1739.7	1744.8	1758.7	1772.6	1773.3
17.5°	1771.9	1771.9	1751.4	1733.8	1733.1	1743.3	1742.6	1744.8	1760.2	1780.6	1781.4
20°	1781.4	1781.4	1755.0	1736.0	1736.0	1747.0	1747.7	1751.4	1766.7	1789.4	1793.1
22.5°	1802.6	1803.3	1775.5	1760.2	1761.6	1768.2	1770.4	1776.3	1790.2	1815.0	1819.4
25°	1832.6	1834.0	1805.5	1796.7	1801.9	1814.3	1812.8	1817.2	1832.6	1856.7	1861.1
27.5°	1874.3	1870.6	1844.3	1840.6	1845.8	1854.5	1853.8	1854.5	1867.0	1888.9	1894.0
30°	1928.4	1927.0	1907.9	1910.1	1907.9	1905.0	1905.7	1911.6	1918.2	1935.7	1940.9
32.5°	1981.1	1982.6	1970.9	1981.8	1997.9	2008.9	1992.1	1976.0	1968.7	1978.2	1982.6
35°	2076.2	2079.9	2061.6	2054.3	2076.2	2108.4	2060.8	2034.5	2049.1	2061.6	2065.2
37.5°	2237.9	2240.1	2209.3	2180.1	2164.0	2194.7	2147.2	2149.4	2200.6	2224.0	2223.2
40°	2422.2	2423.0	2402.5	2376.9	2349.1	2356.4	2337.4	2343.2	2376.9	2398.1	2403.9
42.5°	2641.7	2639.5	2607.3	2570.7	2562.7	2570.0	2537.8	2533.4	2572.2	2610.2	2611.0
45°	2926.3	2921.2	2879.5	2839.2	2800.5	2784.4	2776.3	2797.5	2850.9	2886.0	2886.8
47.5°	3232.8	3218.9	3197.0	3164.8	3131.1	3115.0	3101.9	3112.1	3150.9	3164.8	3166.2
50°	3548.1	3551.0	3555.4	3543.0	3530.6	3525.4	3491.1	3471.3	3483.0	3457.4	3453.7
52.5°	3922.0	3927.8	3970.2	4006.1	4027.3	4038.3	3973.2	3905.1	3867.1	3817.3	3802.7
55°	4363.1	4372.6	4434.8	4534.3	4636.7	4690.8	4573.1	4445.8	4328.0	4235.1	4205.1
57.5°	4854.7	4871.5	4957.1	5148.1	5358.0	5486.1	5287.1	5055.9	4828.4	4694.5	4671.1
60°	5431.2	5447.3	5565.8	5839.4	6179.6	6372.0	6070.6	5692.4	5409.2	5281.2	5238.1
62.5°	6117.4	6118.9	6264.4	6584.1	7033.3	7301.1	6892.9	6387.4	6095.5	5941.1	5899.4
65°	6855.6	6859.2	7009.9	7355.2	7819.8	8110.9	7650.0	7123.3	6766.3	6538.8	6506.6
67.5°	7377.2	7392.5	7551.3	7966.8	8401.4	8664.0	8187.0	7591.5	7178.9	6907.5	6880.4
70°	7293.8	7353.8	7540.3	8025.3	8629.6	9004.2	8274.1	7535.9	6991.6	6671.2	6648.5
72.5°	6361.0	6475.9	6724.6	7361.1	8327.5	8843.2	7799.3	6749.5	6133.5	5860.6	5819.7
75°	4331.6	4518.2	4893.5	5811.6	7114.5	7656.6	6565.9	5381.4	4802.0	4424.5	4396.7
77.5°	1931.3	1973.8	2449.3	3506.4	4909.6	5498.5	4770.6	3520.3	2642.4	2107.7	1995.0
80°	538.4	545.0	727.2	1305.9	2457.3	3230.6	2638.0	1371.7	771.1	543.6	512.1
82.5°	171.2	185.8	226.8	338.7	825.9	1474.1	847.9	365.8	260.4	207.8	187.3
85°	83.4	82.7	114.9	137.5	210.7	326.3	224.6	169.7	148.5	98.8	89.3
87.5°	35.1	35.8	53.4	48.3	61.5	52.7	72.4	76.1	79.7	43.9	38.0
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)