

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: P382906

Luminaire Tested: **GLEON-SA2D-735-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382906  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2D-735-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 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: 15534.5 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

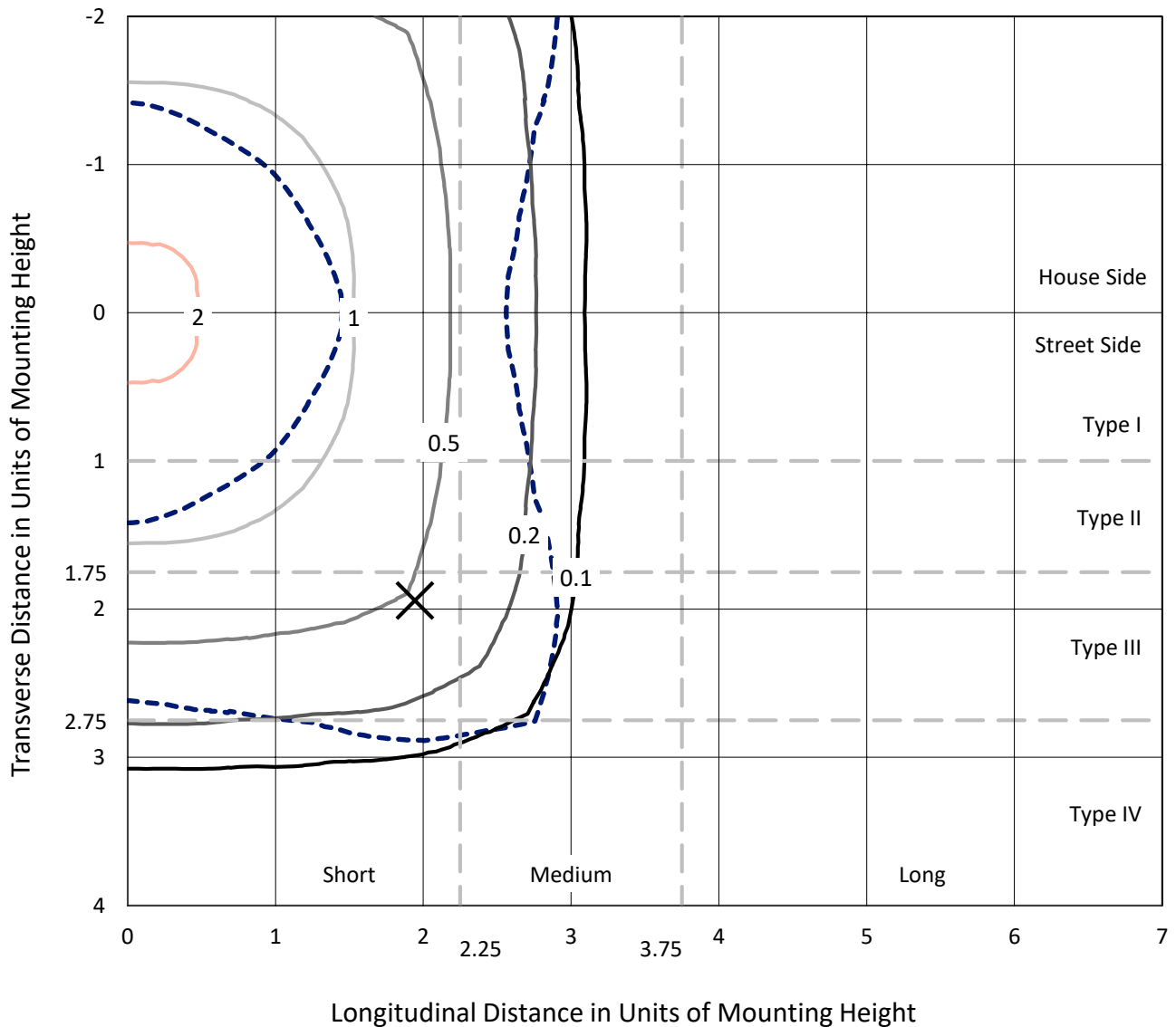
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

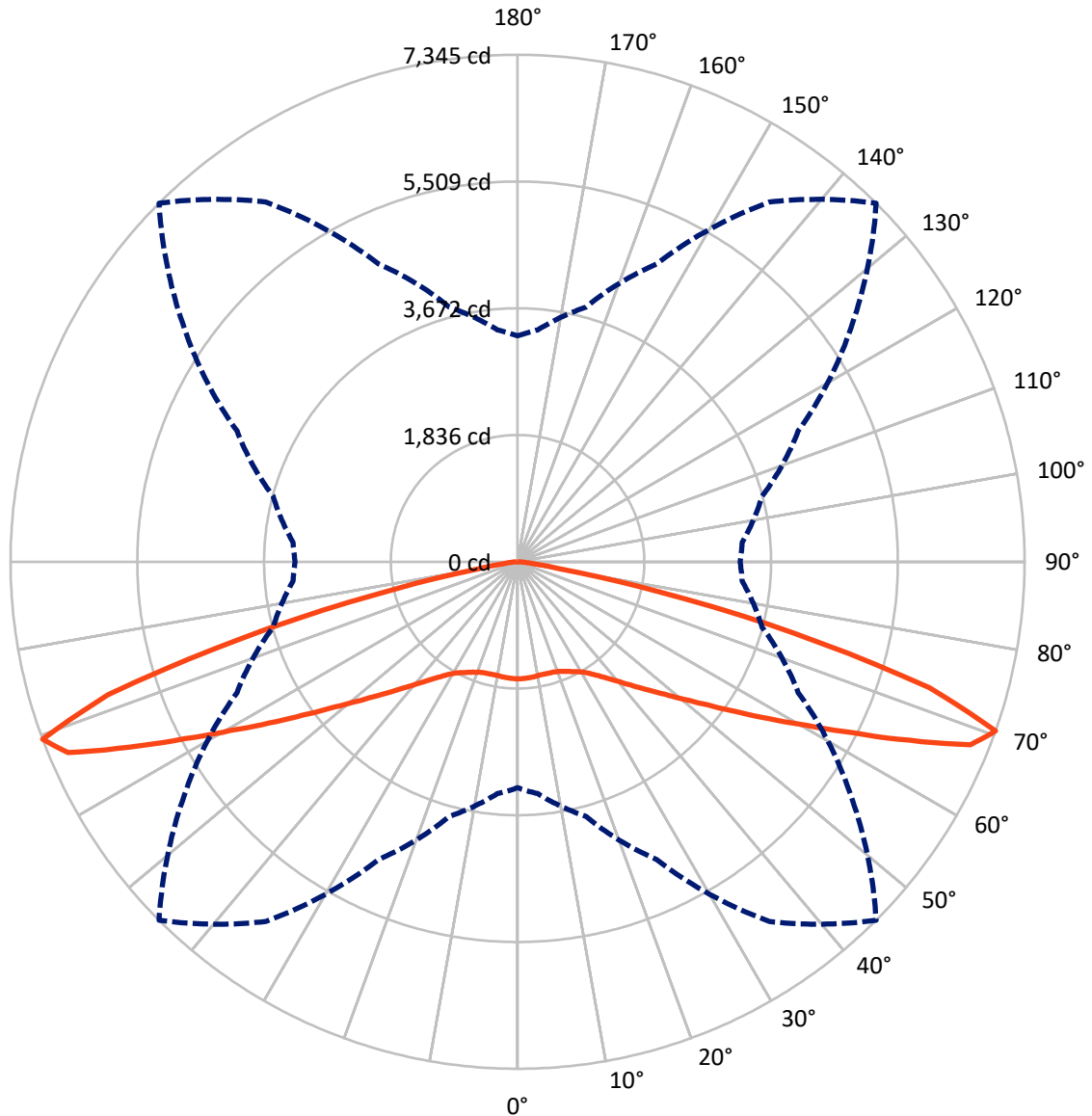
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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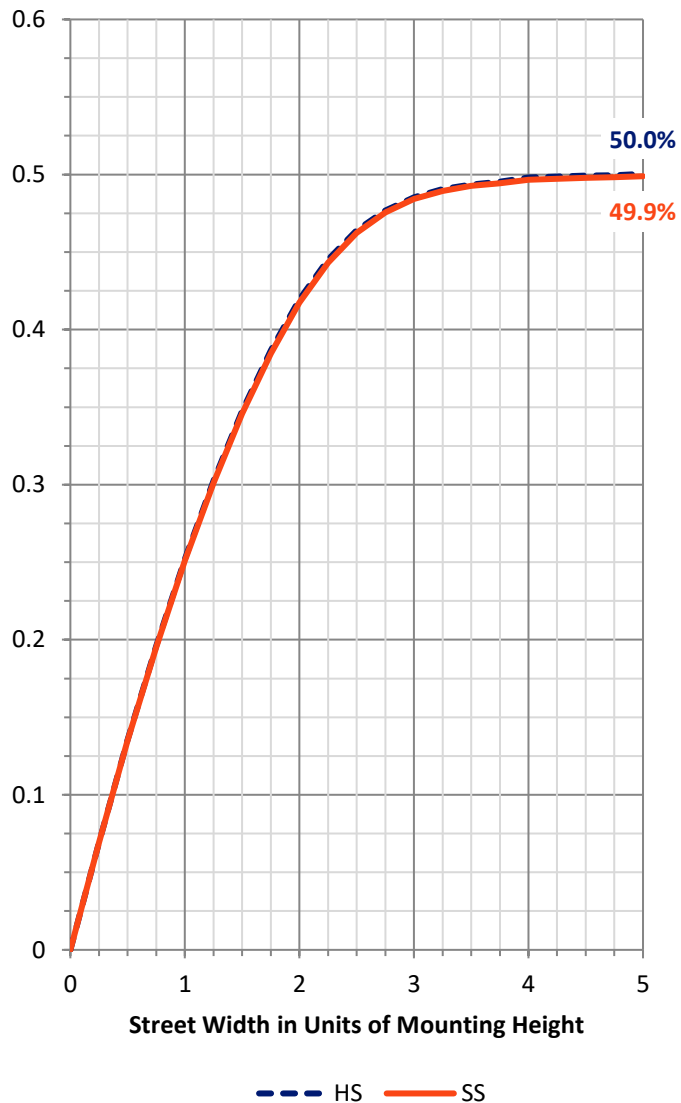
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7767.2	0.0	7767.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7767.2	0.0	7767.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15534.5	0.0	15534.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.7	1.0
10°-20°	471.7	3.0
20°-30°	803.0	5.2
30°-40°	1273.6	8.2
40°-50°	2072.6	13.3
50°-60°	3417.3	22.0
60°-70°	5016.7	32.3
70°-80°	2218.4	14.3
80°-90°	100.5	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°	15534.5	100.0
0°-180°	15534.5	100.0

**Coefficient of Utilization**



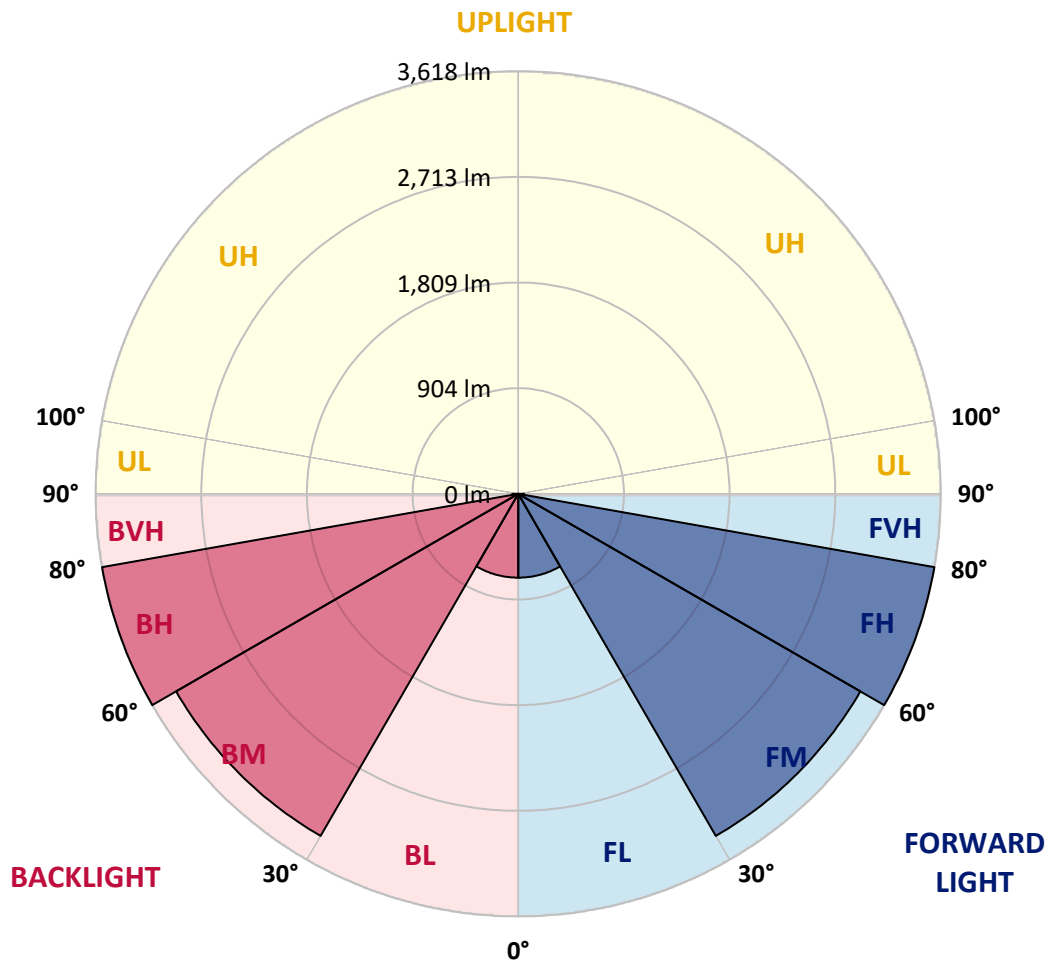
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	717.7	4.6			
FM (30°-60°)	3381.7	21.8			
FH (60°-80°)	3617.5	23.3			G2/5000
FVH (80°-90°)	50.2	0.3			G1/100
BL (0°-30°)	717.7	4.6	B2/1000		
BM (30°-60°)	3381.7	21.8	B3/5000		
BH (60°-80°)	3617.5	23.3	B4/5000		G2/5000
BVH (80°-90°)	50.2	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°	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6	1696.6
2.5°	1694.0	1692.5	1696.1	1695.6	1692.5	1693.0	1693.0	1694.6	1694.6	1693.6	1693.6
5°	1687.9	1686.8	1690.9	1690.9	1687.9	1688.9	1689.9	1691.5	1690.9	1689.9	1689.5
7.5°	1680.1	1679.7	1683.8	1683.8	1681.7	1682.7	1681.7	1682.2	1681.2	1680.1	1678.6
10°	1667.3	1668.3	1671.9	1673.0	1673.0	1673.4	1672.4	1669.9	1668.3	1666.8	1665.2
12.5°	1655.5	1655.0	1660.1	1662.7	1666.8	1671.4	1668.3	1661.1	1658.1	1655.0	1654.0
15°	1647.7	1648.3	1653.4	1658.1	1665.2	1675.0	1671.4	1660.1	1654.0	1650.3	1649.3
17.5°	1646.2	1647.3	1654.0	1662.2	1669.9	1680.7	1678.6	1667.3	1657.0	1650.3	1648.8
20°	1649.9	1650.3	1660.6	1672.4	1685.8	1696.1	1691.5	1679.1	1665.2	1655.0	1652.4
22.5°	1656.5	1658.5	1671.4	1689.9	1710.5	1724.4	1718.7	1697.7	1676.0	1663.2	1659.6
25°	1677.6	1678.1	1695.6	1720.8	1745.4	1761.4	1754.7	1724.9	1697.1	1682.7	1678.1
27.5°	1721.3	1722.8	1740.3	1769.6	1790.7	1801.0	1796.9	1772.7	1749.1	1733.6	1735.2
30°	1784.6	1786.6	1806.1	1838.5	1851.4	1854.0	1852.9	1841.6	1820.0	1799.5	1801.0
32.5°	1861.6	1862.6	1888.9	1918.1	1928.5	1930.5	1928.5	1918.1	1892.5	1864.8	1866.3
35°	1960.9	1964.0	1989.1	2017.5	2025.7	2029.7	2026.1	2012.8	1986.1	1958.8	1957.7
37.5°	2083.2	2083.8	2110.0	2139.3	2149.5	2150.6	2146.5	2137.7	2104.3	2079.6	2078.1
40°	2225.1	2227.1	2258.1	2289.4	2293.5	2288.9	2294.5	2289.4	2254.9	2226.7	2231.3
42.5°	2397.9	2402.5	2439.5	2470.4	2458.5	2455.9	2459.6	2461.1	2433.4	2398.9	2395.8
45°	2598.9	2603.0	2649.3	2673.9	2666.3	2649.3	2656.5	2668.8	2630.2	2587.6	2591.7
47.5°	2828.2	2838.5	2887.8	2911.0	2892.0	2868.8	2882.7	2901.2	2855.9	2803.0	2800.4
50°	3083.2	3096.1	3161.9	3194.3	3175.3	3132.5	3155.7	3168.0	3102.7	3034.3	3028.7
52.5°	3355.2	3368.0	3450.8	3517.6	3505.3	3439.0	3471.3	3458.5	3383.5	3291.4	3284.3
55°	3663.1	3668.2	3757.8	3865.7	3878.0	3829.2	3827.2	3806.0	3695.0	3588.6	3583.5
57.5°	3979.9	3983.4	4099.1	4226.6	4284.7	4284.7	4227.1	4182.4	4034.8	3911.5	3898.6
60°	4321.7	4334.6	4462.6	4635.8	4771.6	4811.7	4709.9	4588.1	4427.6	4277.0	4262.1
62.5°	4626.1	4641.0	4836.9	5095.0	5313.0	5459.0	5210.1	5011.6	4719.7	4478.0	4449.7
65°	4664.6	4704.8	4990.1	5457.4	5945.3	6236.8	5759.8	5270.8	4738.7	4403.0	4374.2
67.5°	4260.1	4327.9	4713.4	5441.0	6449.2	7074.8	6110.9	5122.8	4397.3	4026.1	3994.2
70°	3273.5	3372.1	3816.8	4759.3	6362.3	7344.8	5890.8	4484.7	3666.2	3266.8	3222.0
72.5°	1795.8	1836.5	2236.5	3259.0	5100.6	6241.5	4913.4	3316.1	2431.2	1978.3	1903.2
75°	569.6	584.1	787.6	1333.6	2885.3	4134.0	3121.2	1627.7	896.1	660.7	652.9
77.5°	252.9	254.5	284.9	389.2	993.8	2094.6	1193.8	443.1	305.4	266.8	275.6
80°	159.9	159.9	176.3	192.8	270.4	608.2	322.9	210.8	180.0	167.1	170.7
82.5°	76.6	84.9	114.7	123.4	148.6	204.7	165.5	137.8	120.3	89.4	83.3
85°	50.4	42.2	72.5	81.8	86.4	98.2	96.1	91.0	78.6	44.7	49.8
87.5°	22.6	21.6	37.5	34.5	32.4	24.7	37.0	45.7	44.2	22.1	22.1
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)