

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: P382907

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382907  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)  
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-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15254.1 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

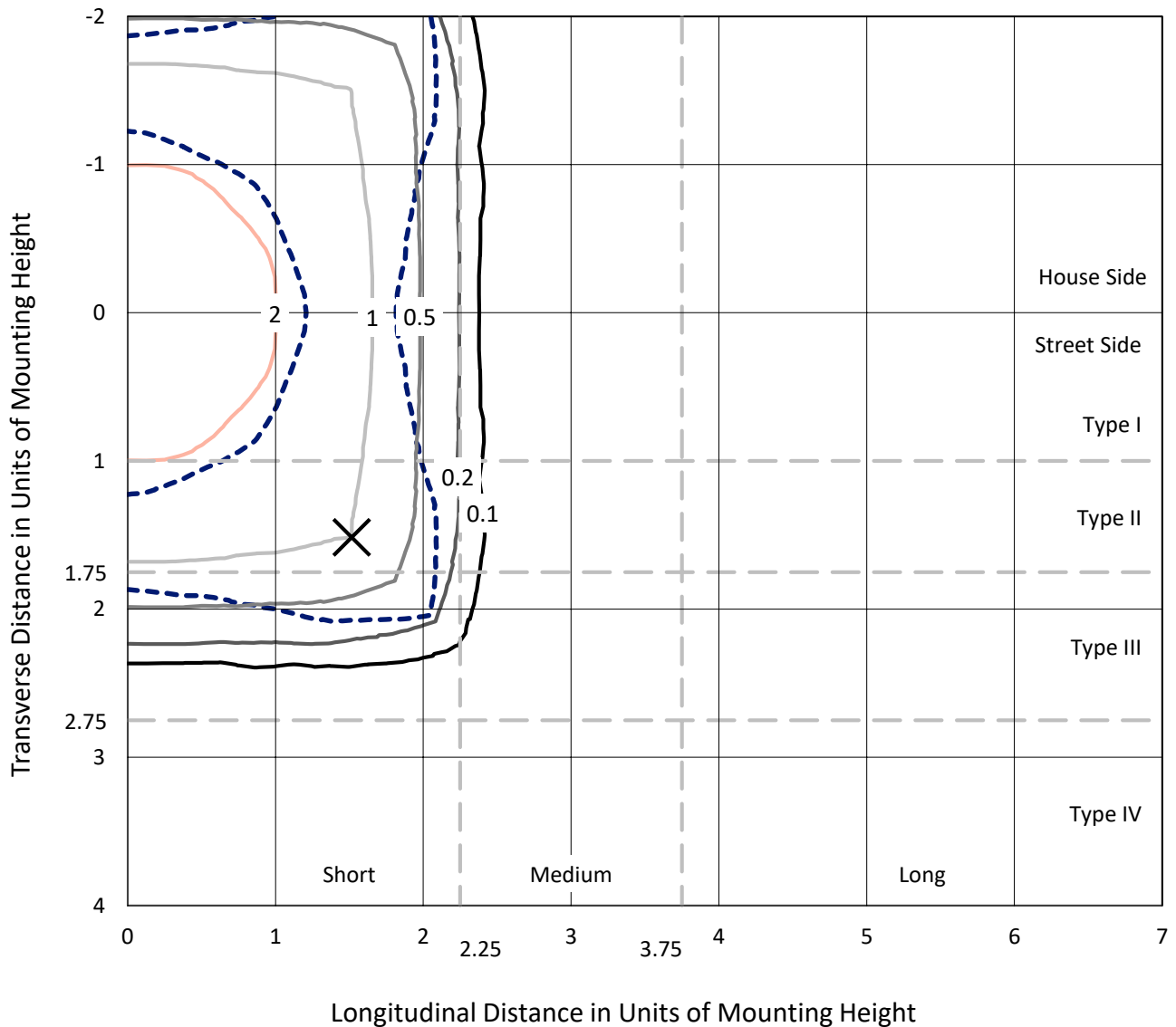
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

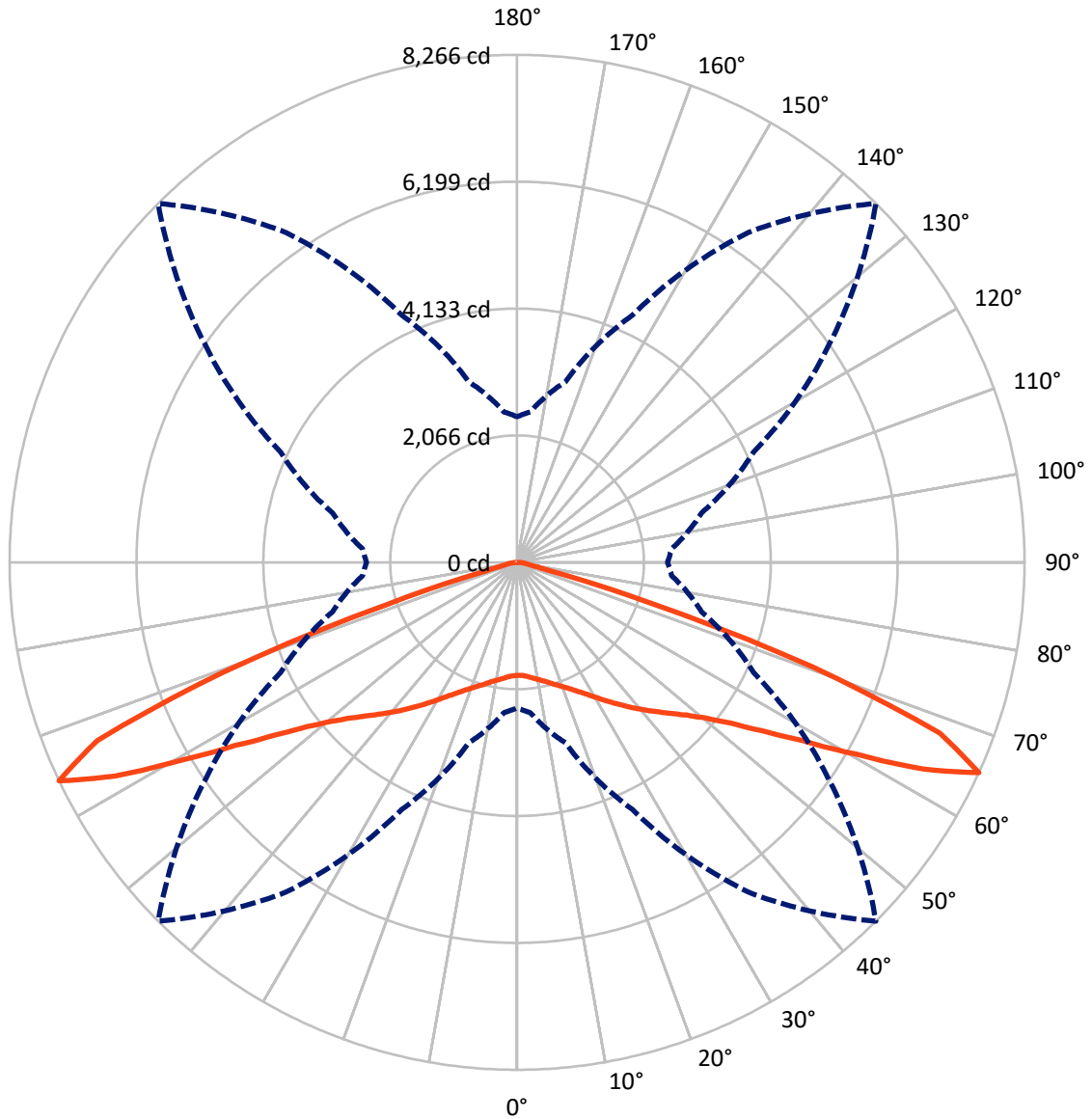
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7627.0	0.0	7627.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7627.0	0.0	7627.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15254.1	0.0	15254.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.7	1.2
10°-20°	580.9	3.8
20°-30°	1089.9	7.1
30°-40°	1802.6	11.8
40°-50°	2791.9	18.3
50°-60°	4282.0	28.1
60°-70°	3995.6	26.2
70°-80°	465.0	3.0
80°-90°	65.3	0.4
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°	15254.1	100.0
0°-180°	15254.1	100.0

**Coefficient of Utilization**



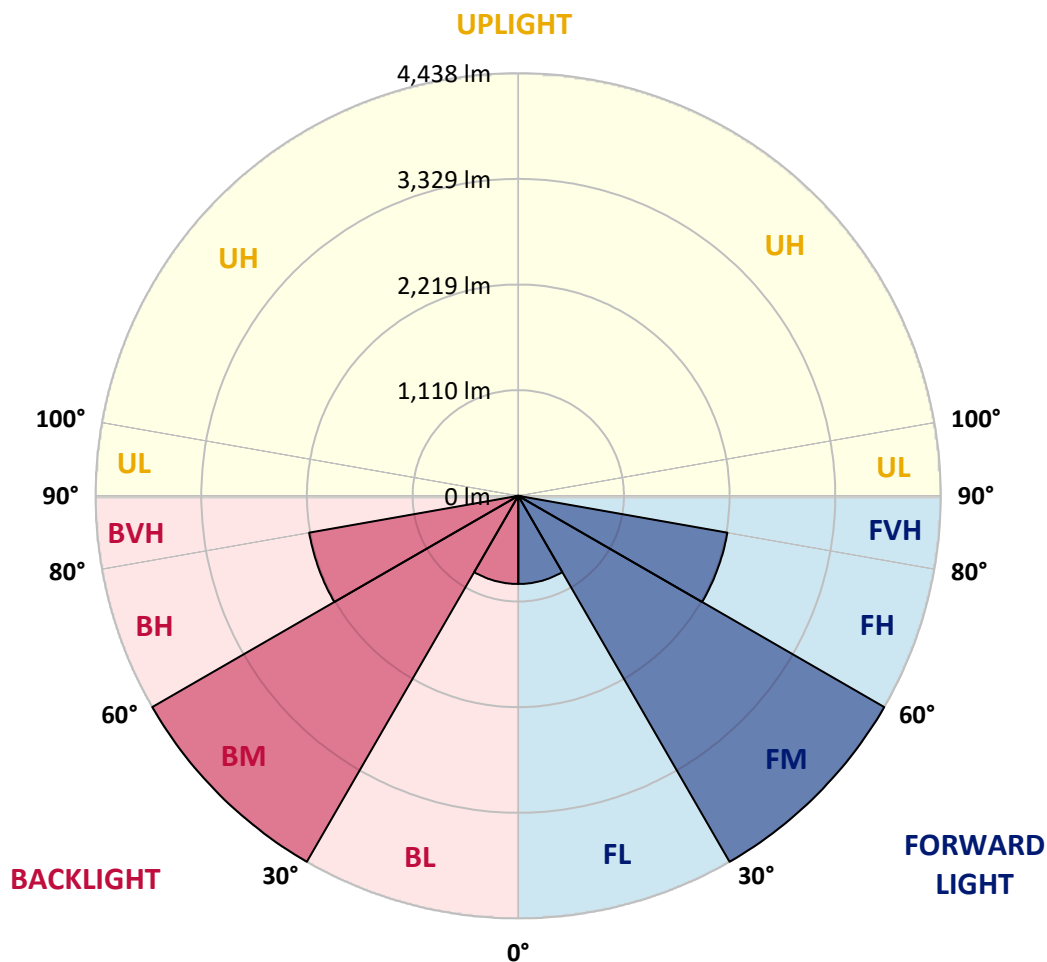
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	925.8	6.1			
FM (30°-60°)	4438.2	29.1			
FH (60°-80°)	2230.3	14.6			G2/5000
FVH (80°-90°)	32.7	0.2			G1/100
BL (0°-30°)	925.8	6.1	B2/1000		
BM (30°-60°)	4438.2	29.1	B3/5000		
BH (60°-80°)	2230.3	14.6	B3/2500		G2/5000
BVH (80°-90°)	32.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1842.1	1842.1	1842.1	1842.1	1842.1	1842.1	1842.1	1842.1	1842.1	1842.1	1842.1
2.5°	1848.2	1847.2	1848.2	1848.7	1845.7	1847.2	1846.7	1849.2	1850.2	1849.2	1849.2
5°	1869.4	1867.9	1870.0	1872.5	1868.5	1869.4	1867.9	1871.0	1872.0	1870.0	1871.5
7.5°	1898.9	1899.3	1901.4	1905.9	1903.4	1905.4	1902.4	1902.9	1902.4	1899.3	1899.9
10°	1930.7	1931.3	1934.8	1940.9	1941.9	1941.9	1939.9	1938.4	1936.3	1934.3	1934.8
12.5°	1969.2	1971.7	1974.3	1981.9	1981.9	1986.0	1984.9	1980.8	1977.3	1974.3	1974.3
15°	2021.4	2020.9	2023.9	2031.5	2035.1	2041.7	2041.7	2036.1	2031.5	2028.4	2027.4
17.5°	2076.0	2077.5	2079.6	2088.7	2094.3	2101.9	2102.9	2098.3	2095.3	2091.2	2088.7
20°	2139.9	2142.4	2150.5	2154.0	2159.1	2166.2	2168.7	2167.7	2164.6	2162.7	2163.1
22.5°	2214.3	2220.9	2225.9	2231.0	2237.1	2242.1	2244.7	2248.2	2245.2	2243.6	2242.6
25°	2304.5	2309.0	2319.1	2328.2	2332.3	2333.8	2336.9	2341.9	2341.4	2337.8	2337.8
27.5°	2406.7	2415.3	2428.0	2441.1	2441.1	2436.1	2446.2	2454.8	2451.7	2447.2	2441.1
30°	2530.7	2538.8	2553.6	2571.8	2562.7	2559.1	2572.8	2588.5	2583.9	2576.4	2575.4
32.5°	2664.4	2672.1	2691.2	2711.0	2699.3	2694.3	2709.0	2731.8	2723.7	2708.5	2699.3
35°	2809.3	2816.9	2844.2	2868.0	2848.3	2839.6	2851.8	2876.6	2862.5	2834.0	2827.0
37.5°	2966.7	2970.8	3006.2	3030.5	3016.9	2994.1	3009.3	3027.5	3015.3	2981.0	2967.3
40°	3130.3	3145.0	3186.0	3214.3	3190.6	3154.6	3179.9	3205.3	3187.0	3142.9	3119.7
42.5°	3321.2	3332.3	3387.0	3412.4	3373.9	3323.2	3357.7	3392.0	3373.9	3331.3	3311.1
45°	3519.7	3536.9	3602.2	3627.5	3571.8	3507.6	3549.6	3609.8	3608.3	3547.1	3525.7
47.5°	3735.9	3753.1	3831.1	3864.5	3804.3	3718.2	3777.4	3862.5	3856.4	3789.1	3771.8
50°	3985.5	4003.8	4101.0	4143.0	4086.8	3986.6	4075.7	4150.6	4139.4	4056.4	4057.9
52.5°	4299.0	4298.0	4419.0	4491.9	4434.2	4345.6	4427.6	4500.5	4454.4	4339.5	4335.9
55°	4573.4	4590.1	4740.0	4878.2	4874.7	4840.8	4873.7	4876.7	4745.0	4592.2	4573.4
57.5°	4753.7	4785.5	4996.7	5246.8	5434.2	5479.3	5415.5	5222.1	4913.7	4669.1	4639.2
60°	4642.7	4691.4	5023.1	5532.9	6084.9	6349.7	5989.7	5389.7	4782.6	4441.8	4401.3
62.5°	3894.4	3976.4	4462.0	5394.7	6644.9	7419.1	6405.9	5120.8	4261.0	3791.6	3722.2
65°	2371.8	2458.4	3043.7	4440.2	6554.3	8265.8	6216.0	4250.4	3110.1	2526.2	2451.3
67.5°	790.4	815.8	1160.6	2454.3	5151.2	7426.8	5159.7	2544.4	1353.4	897.3	870.9
70°	309.4	311.9	368.1	711.4	2432.6	5101.1	2684.2	724.1	384.8	304.3	310.9
72.5°	227.4	228.3	244.1	297.3	633.9	2247.2	656.7	298.7	237.5	213.1	213.1
75°	182.8	182.8	193.9	216.7	284.0	515.4	288.1	214.2	185.8	170.1	168.1
77.5°	144.3	147.4	155.9	170.7	192.5	248.1	199.5	169.6	149.9	135.2	132.2
80°	107.3	110.4	124.5	131.6	138.2	172.1	147.4	132.7	118.5	101.3	98.3
82.5°	70.4	73.4	91.1	95.2	93.7	112.4	99.2	97.7	87.1	65.3	62.3
85°	46.1	47.1	60.7	63.3	58.2	51.1	63.3	66.9	60.7	42.6	41.0
87.5°	21.8	21.8	30.9	28.9	26.4	21.2	28.9	33.9	34.5	20.8	20.2
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)