

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: P383132

Luminaire Tested: **GLEON-SA4D-735-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383132  
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-SA4D-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30711.3 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 258  
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

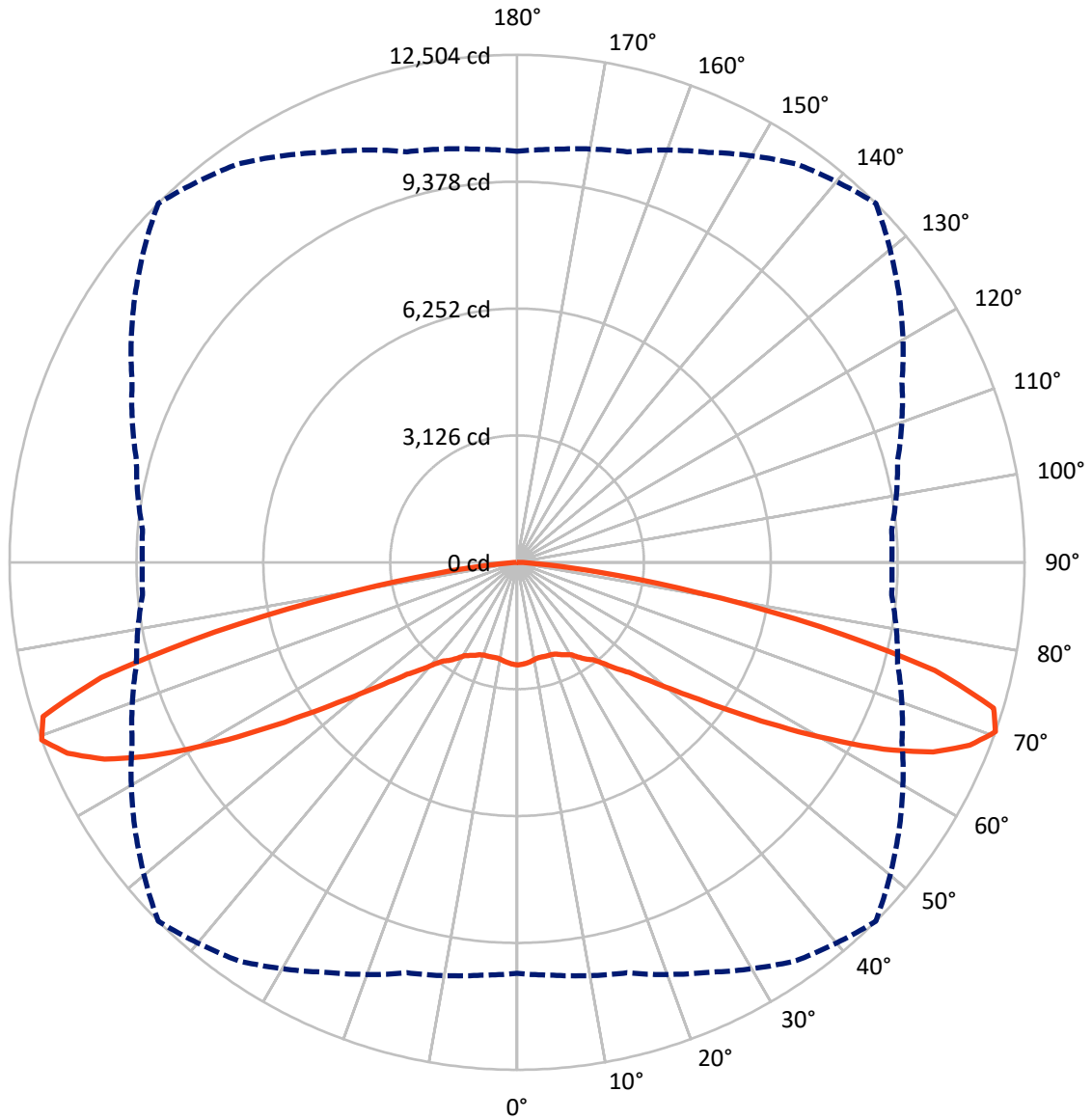
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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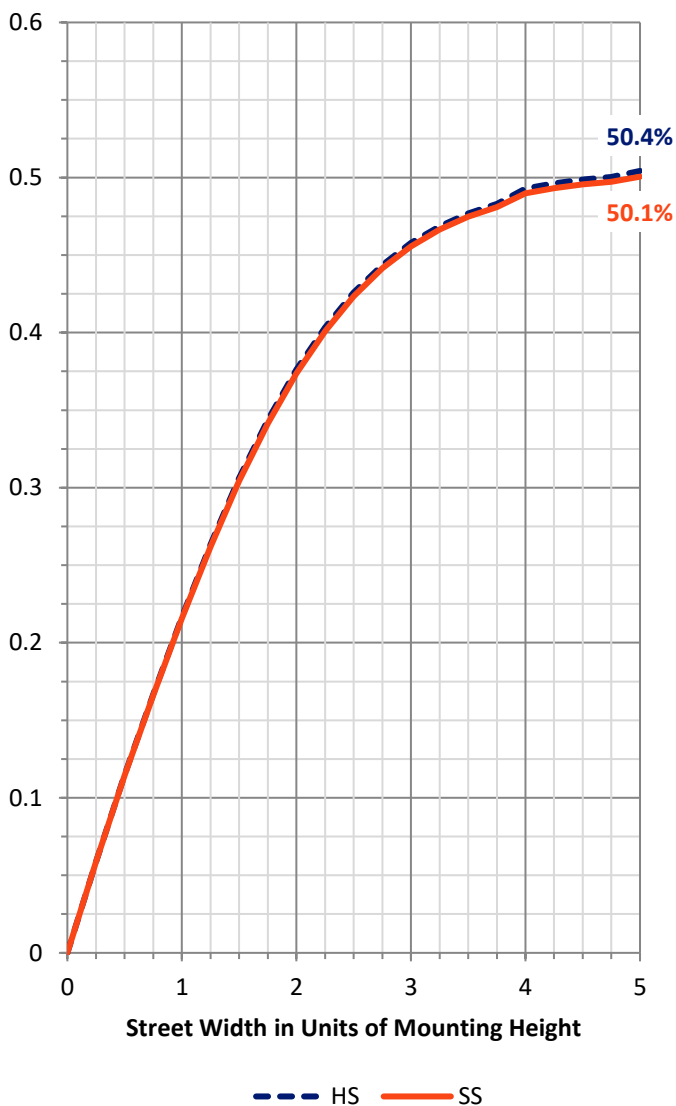
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15355.6	0.0	15355.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15355.6	0.0	15355.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30711.3	0.0	30711.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.9	0.8
10°-20°	689.1	2.2
20°-30°	1174.9	3.8
30°-40°	1835.8	6.0
40°-50°	3111.2	10.1
50°-60°	5673.5	18.5
60°-70°	9767.3	31.8
70°-80°	7656.0	24.9
80°-90°	567.7	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°	30711.3	100.0
0°-180°	30711.3	100.0

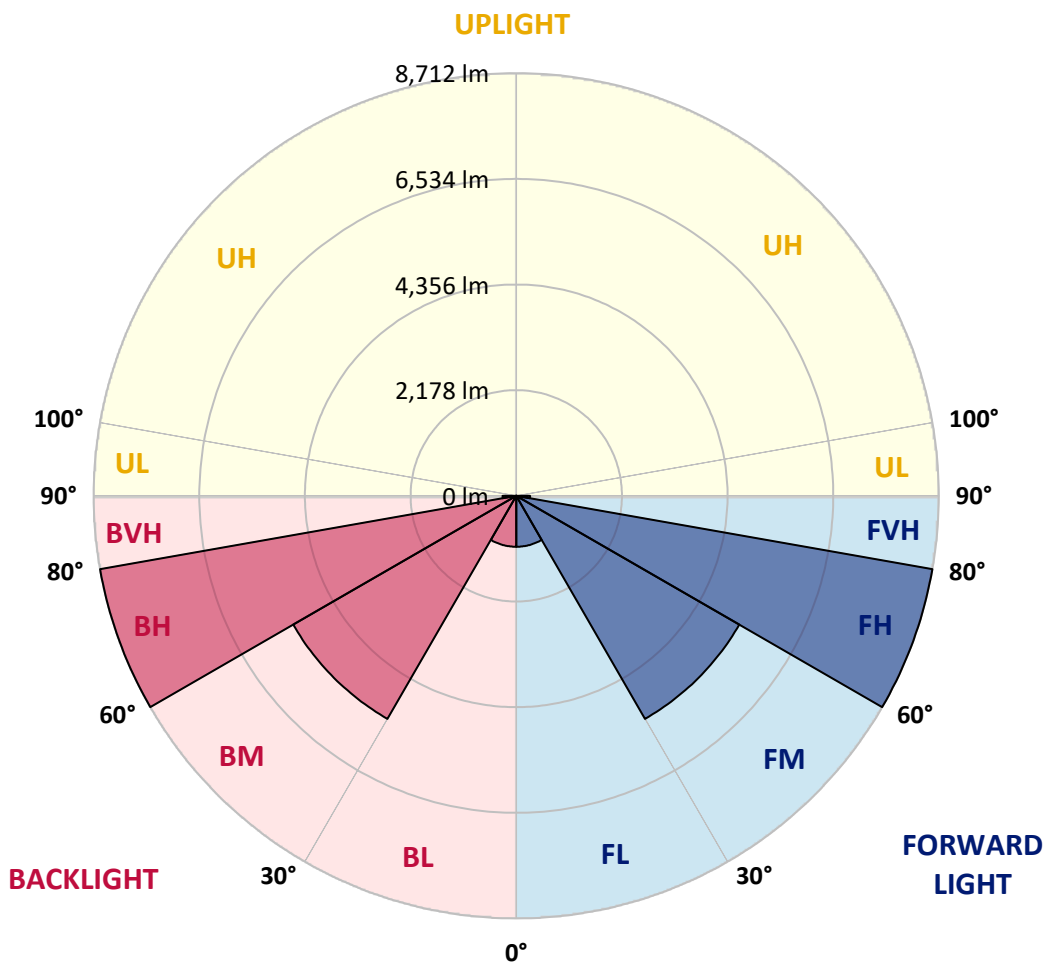


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1049.9	3.4			
FM (30°-60°)	5310.2	17.3			
FH (60°-80°)	8711.6	28.4			G4/12000
FVH (80°-90°)	283.8	0.9			G3/500
BL (0°-30°)	1049.9	3.4	B3/2500		
BM (30°-60°)	5310.2	17.3	B4/8500		
BH (60°-80°)	8711.6	28.4	B5		G4/12000
BVH (80°-90°)	283.8	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2527.6	2527.6	2527.6	2527.6	2527.6	2527.6	2527.6	2527.6	2527.6	2527.6	2527.6
2.5°	2516.4	2519.4	2516.4	2518.4	2513.3	2515.4	2515.4	2515.4	2514.3	2515.4	2513.3
5°	2494.0	2496.1	2492.0	2494.0	2491.0	2494.0	2495.1	2494.0	2492.0	2493.0	2488.9
7.5°	2460.5	2462.5	2459.5	2462.5	2458.4	2463.6	2462.5	2459.5	2456.4	2456.4	2452.4
10°	2442.2	2443.3	2435.1	2432.1	2422.9	2424.9	2428.0	2431.1	2434.0	2440.2	2439.2
12.5°	2443.3	2443.3	2431.1	2417.8	2404.6	2407.7	2412.7	2423.9	2436.1	2447.3	2448.3
15°	2453.4	2452.4	2434.0	2412.7	2403.6	2412.7	2415.8	2422.9	2442.2	2461.5	2462.5
17.5°	2460.5	2460.5	2432.1	2407.7	2406.7	2420.9	2419.9	2422.9	2444.2	2472.7	2473.7
20°	2473.7	2473.7	2437.1	2410.8	2410.8	2425.9	2427.0	2432.1	2453.4	2484.9	2489.9
22.5°	2503.2	2504.2	2465.5	2444.2	2446.2	2455.4	2458.4	2466.6	2485.9	2520.4	2526.5
25°	2544.8	2546.9	2507.3	2495.1	2502.1	2519.4	2517.4	2523.5	2544.8	2578.3	2584.4
27.5°	2602.7	2597.6	2561.1	2556.0	2563.1	2575.3	2574.2	2575.3	2592.6	2623.1	2630.1
30°	2677.9	2675.9	2649.4	2652.5	2649.4	2645.4	2646.4	2654.5	2663.7	2688.1	2695.2
32.5°	2751.0	2753.1	2736.8	2752.1	2774.4	2789.6	2766.2	2744.0	2733.8	2746.9	2753.1
35°	2883.1	2888.2	2862.8	2852.6	2883.1	2927.8	2861.8	2825.2	2845.5	2862.8	2867.9
37.5°	3107.6	3110.6	3068.0	3027.3	3005.0	3047.7	2981.6	2984.7	3055.8	3088.4	3087.3
40°	3363.6	3364.7	3336.2	3300.7	3262.0	3272.2	3245.8	3253.9	3300.7	3330.1	3338.2
42.5°	3668.4	3665.4	3620.6	3569.9	3558.7	3568.9	3524.1	3518.1	3571.8	3624.7	3625.7
45°	4063.6	4056.4	3998.6	3942.7	3888.8	3866.5	3855.3	3884.7	3958.9	4007.7	4008.7
47.5°	4489.2	4469.9	4439.5	4394.8	4348.0	4325.6	4307.4	4321.6	4375.5	4394.8	4396.8
50°	4927.0	4931.1	4937.2	4920.0	4902.7	4895.6	4847.9	4820.4	4836.7	4801.1	4796.1
52.5°	5446.2	5454.3	5513.3	5563.0	5592.5	5607.7	5517.3	5422.8	5370.0	5301.0	5280.6
55°	6058.8	6072.0	6158.4	6296.5	6438.8	6513.9	6350.4	6173.6	6010.1	5881.0	5839.3
57.5°	6741.4	6764.8	6883.7	7148.9	7440.4	7618.2	7341.9	7020.8	6704.9	6519.0	6486.5
60°	7542.0	7564.4	7729.0	8108.8	8581.2	8848.4	8429.9	7904.6	7511.5	7333.7	7273.8
62.5°	8494.9	8496.9	8699.1	9143.0	9766.8	10138.6	9571.7	8869.7	8464.4	8250.1	8192.1
65°	9520.0	9525.0	9734.3	10213.8	10858.9	11263.2	10623.2	9891.7	9396.0	9080.1	9035.4
67.5°	10244.2	10265.6	10486.1	11063.1	11666.5	12031.2	11368.9	10542.0	9969.0	9592.1	9554.5
70°	10128.4	10211.7	10470.8	11144.4	11983.4	12503.6	11489.7	10464.7	9708.9	9264.0	9232.5
72.5°	8833.2	8992.7	9338.1	10221.9	11564.0	12280.1	10830.5	9372.6	8517.2	8138.3	8081.5
75°	6015.1	6274.2	6795.3	8070.3	9879.5	10632.3	9117.6	7472.9	6668.3	6144.1	6105.5
77.5°	2681.9	2740.9	3401.2	4869.2	6817.6	7635.4	6624.6	4888.5	3669.4	2926.8	2770.3
80°	747.7	756.9	1009.8	1813.4	3412.4	4486.1	3663.3	1904.8	1070.7	754.8	711.1
82.5°	237.7	258.0	315.0	470.3	1146.9	2047.0	1177.4	508.0	361.6	288.5	260.1
85°	115.8	114.8	159.5	191.0	292.6	453.1	311.9	235.7	206.2	137.1	123.9
87.5°	48.7	49.7	74.2	67.1	85.3	73.1	100.6	105.6	110.8	60.9	52.8
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)