

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: P383159

Luminaire Tested: **GLEON-SA5A-735-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383159  
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-SA5A-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22381.4 lumens  
Efficiency: N/A  
Efficacy: 138.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

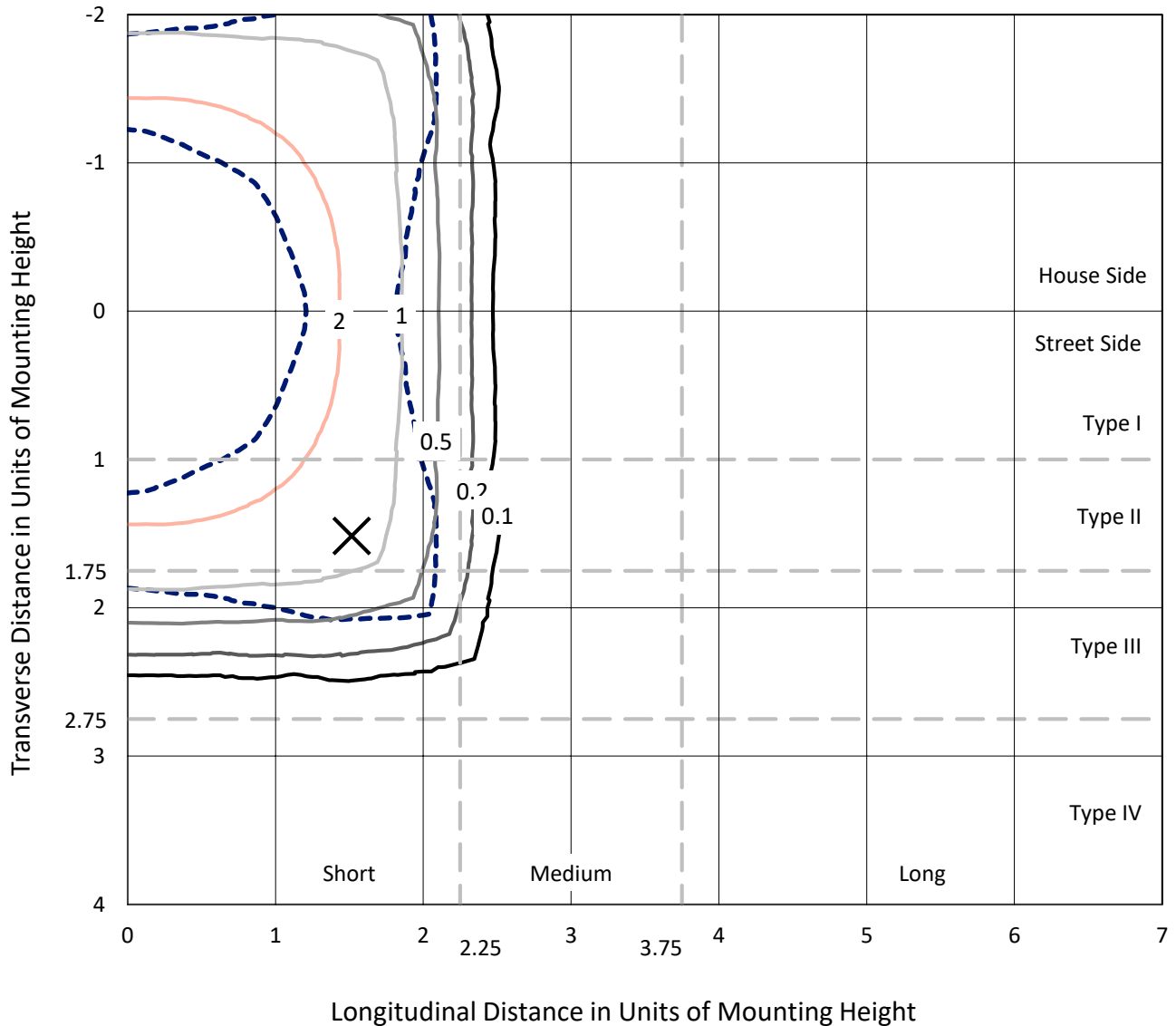
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383159  
 CATALOG NUMBER: GLEON-SA5A-735-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

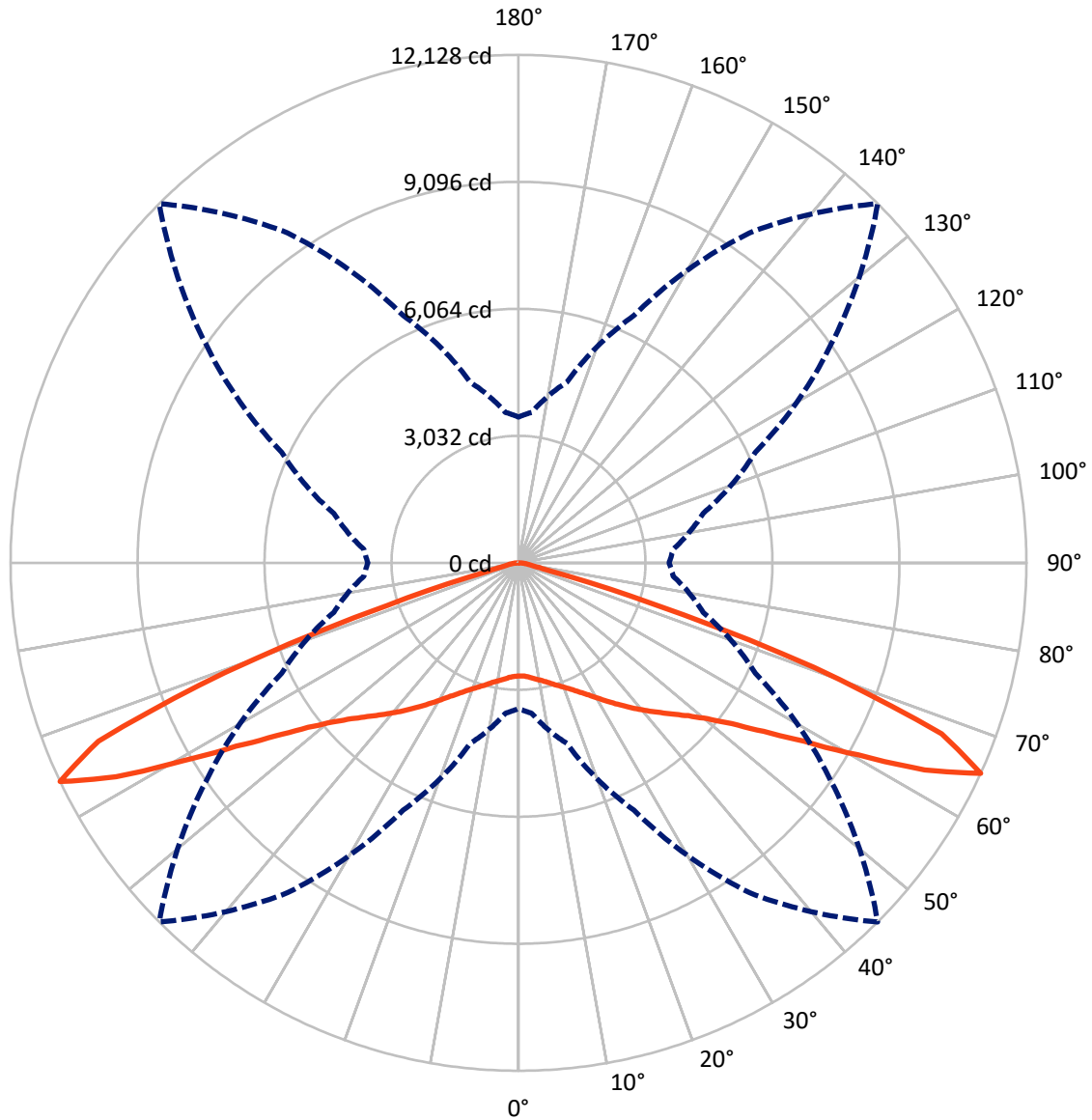
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type V - Short - N/A

REPORT NUMBER: P383159  
CATALOG NUMBER: GLEON-SA5A-735-U-5NQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P383159  
 CATALOG NUMBER: GLEON-SA5A-735-U-5NQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11190.7	0.0	11190.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11190.7	0.0	11190.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22381.4	0.0	22381.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.2	1.2
10°-20°	852.4	3.8
20°-30°	1599.2	7.1
30°-40°	2644.8	11.8
40°-50°	4096.4	18.3
50°-60°	6282.7	28.1
60°-70°	5862.5	26.2
70°-80°	682.3	3.0
80°-90°	95.9	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°	22381.4	100.0
0°-180°	22381.4	100.0

**Coefficient of Utilization**



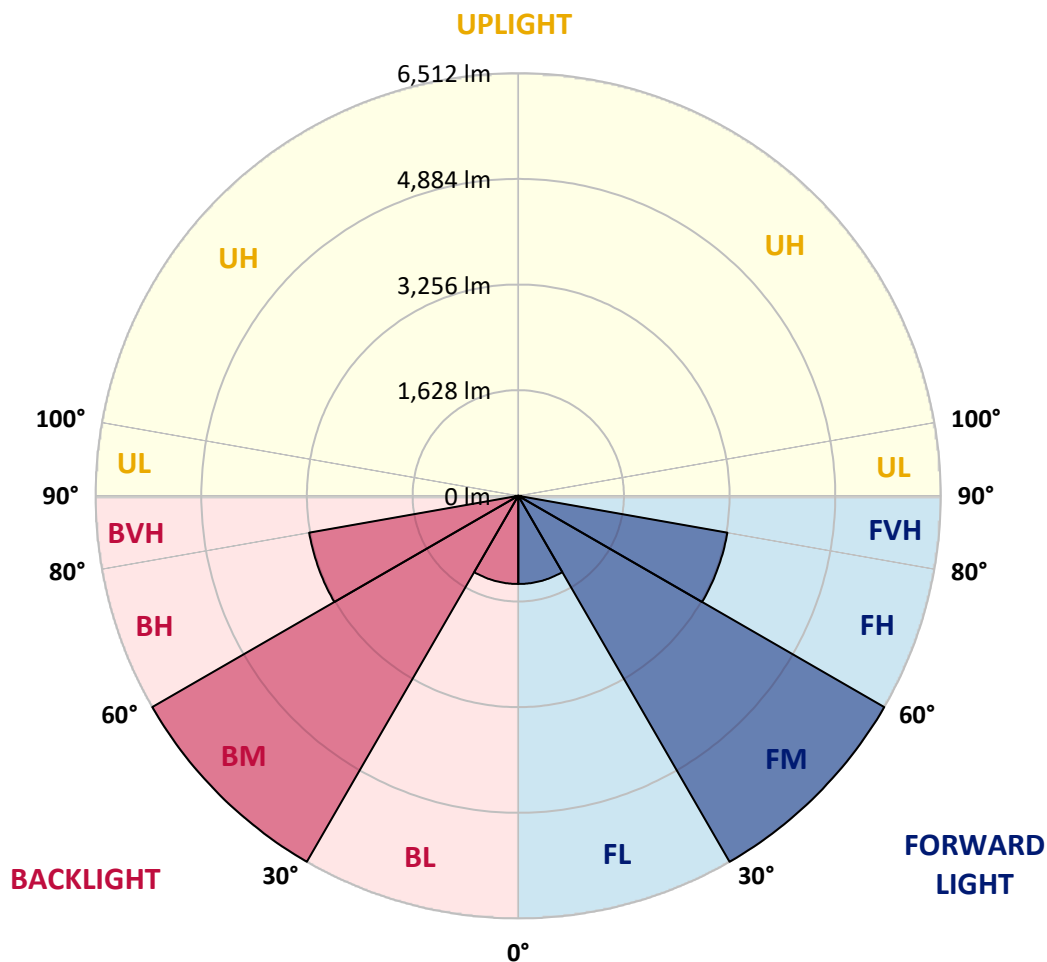
REPORT NUMBER: P383159  
 CATALOG NUMBER: GLEON-SA5A-735-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1358.4	6.1			
FM (30°-60°)	6512.0	29.1			
FH (60°-80°)	3272.4	14.6			G2/5000
FVH (80°-90°)	47.9	0.2			G1/100
BL (0°-30°)	1358.4	6.1	B3/2500		
BM (30°-60°)	6512.0	29.1	B4/8500		
BH (60°-80°)	3272.4	14.6	B4/5000		G2/5000
BVH (80°-90°)	47.9	0.2			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





REPORT NUMBER: P383159  
 CATALOG NUMBER: GLEON-SA5A-735-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8	2702.8
2.5°	2711.7	2710.2	2711.7	2712.5	2708.0	2710.2	2709.5	2713.2	2714.7	2713.2	2713.2
5°	2742.9	2740.7	2743.7	2747.4	2741.5	2742.9	2740.7	2745.2	2746.7	2743.7	2745.9
7.5°	2786.1	2786.8	2789.8	2796.4	2792.7	2795.7	2791.3	2791.9	2791.3	2786.8	2787.6
10°	2832.8	2833.6	2838.8	2847.7	2849.2	2849.2	2846.3	2844.0	2841.0	2838.1	2838.8
12.5°	2889.3	2893.0	2896.7	2907.9	2907.9	2913.8	2912.3	2906.4	2901.2	2896.7	2896.7
15°	2965.9	2965.1	2969.6	2980.7	2985.9	2995.6	2995.6	2987.4	2980.7	2976.2	2974.7
17.5°	3046.1	3048.3	3051.3	3064.6	3072.8	3084.0	3085.5	3078.8	3074.3	3068.3	3064.6
20°	3139.7	3143.4	3155.2	3160.5	3167.9	3178.3	3182.1	3180.6	3176.1	3173.1	3173.9
22.5°	3248.9	3258.6	3266.0	3273.5	3282.3	3289.8	3293.5	3298.7	3294.2	3292.0	3290.5
25°	3381.1	3387.9	3402.7	3416.1	3422.0	3424.3	3428.7	3436.1	3435.4	3430.1	3430.1
27.5°	3531.2	3543.9	3562.4	3581.7	3581.7	3574.3	3589.2	3601.8	3597.4	3590.7	3581.7
30°	3713.2	3725.2	3746.7	3773.4	3760.0	3754.9	3774.9	3797.9	3791.2	3780.1	3778.6
32.5°	3909.3	3920.5	3948.7	3977.7	3960.7	3953.2	3974.7	4008.2	3996.3	3974.0	3960.7
35°	4121.8	4133.0	4173.1	4208.1	4179.1	4166.4	4184.2	4220.7	4199.9	4158.2	4147.9
37.5°	4352.9	4358.9	4410.9	4446.6	4426.4	4393.0	4415.3	4442.1	4424.2	4373.7	4353.7
40°	4592.9	4614.4	4674.6	4716.2	4681.3	4628.6	4665.7	4702.8	4676.1	4611.4	4577.3
42.5°	4873.0	4889.3	4969.5	5006.7	4950.2	4875.9	4926.5	4977.0	4950.2	4887.8	4858.1
45°	5164.2	5189.5	5285.3	5322.5	5240.7	5146.3	5208.0	5296.4	5294.3	5204.4	5173.2
47.5°	5481.4	5506.8	5621.1	5670.1	5581.7	5455.4	5542.3	5667.2	5658.3	5559.5	5534.2
50°	5847.7	5874.4	6017.1	6078.8	5996.3	5849.2	5980.0	6089.9	6073.6	5951.8	5954.0
52.5°	6307.6	6306.1	6483.7	6590.7	6505.9	6376.0	6496.3	6603.3	6535.6	6367.0	6361.8
55°	6710.3	6734.8	6954.7	7157.5	7152.3	7102.6	7150.8	7155.3	6962.1	6737.8	6710.3
57.5°	6974.8	7021.5	7331.4	7698.4	7973.3	8039.4	7945.8	7662.0	7209.5	6850.7	6806.8
60°	6812.0	6883.4	7370.0	8118.2	8928.0	9316.5	8788.3	7907.9	7017.1	6517.1	6457.7
62.5°	5714.0	5834.4	6546.8	7915.4	9749.7	10885.6	9399.0	7513.4	6251.9	5563.2	5461.4
65°	3480.0	3607.0	4465.8	6514.9	9616.6	12127.8	9120.4	6236.2	4563.2	3706.5	3596.6
67.5°	1159.8	1196.9	1702.9	3601.1	7558.0	10896.8	7570.6	3733.3	1985.9	1316.5	1277.9
70°	453.9	457.7	540.1	1043.8	3569.1	7484.4	3938.3	1062.4	564.6	446.5	456.2
72.5°	333.6	335.1	358.1	436.2	930.2	3297.2	963.6	438.3	348.4	312.8	312.8
75°	268.2	268.2	284.6	317.9	416.8	756.3	422.7	314.3	272.7	249.7	246.7
77.5°	211.7	216.2	228.8	250.4	282.4	364.0	292.7	248.9	219.9	198.3	193.9
80°	157.5	162.0	182.8	193.2	202.8	252.6	216.2	194.7	173.8	148.6	144.1
82.5°	103.3	107.7	133.8	139.6	137.4	165.0	145.6	143.4	127.8	95.9	91.4
85°	67.6	69.1	89.1	92.9	85.4	75.1	92.9	98.1	89.1	62.4	60.2
87.5°	32.0	32.0	45.3	42.4	38.7	31.2	42.4	49.7	50.5	30.5	29.7
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)