

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: P383466

Luminaire Tested: **GLEON-SA7D-735-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383466  
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-SA7D-735-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 53706.5 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

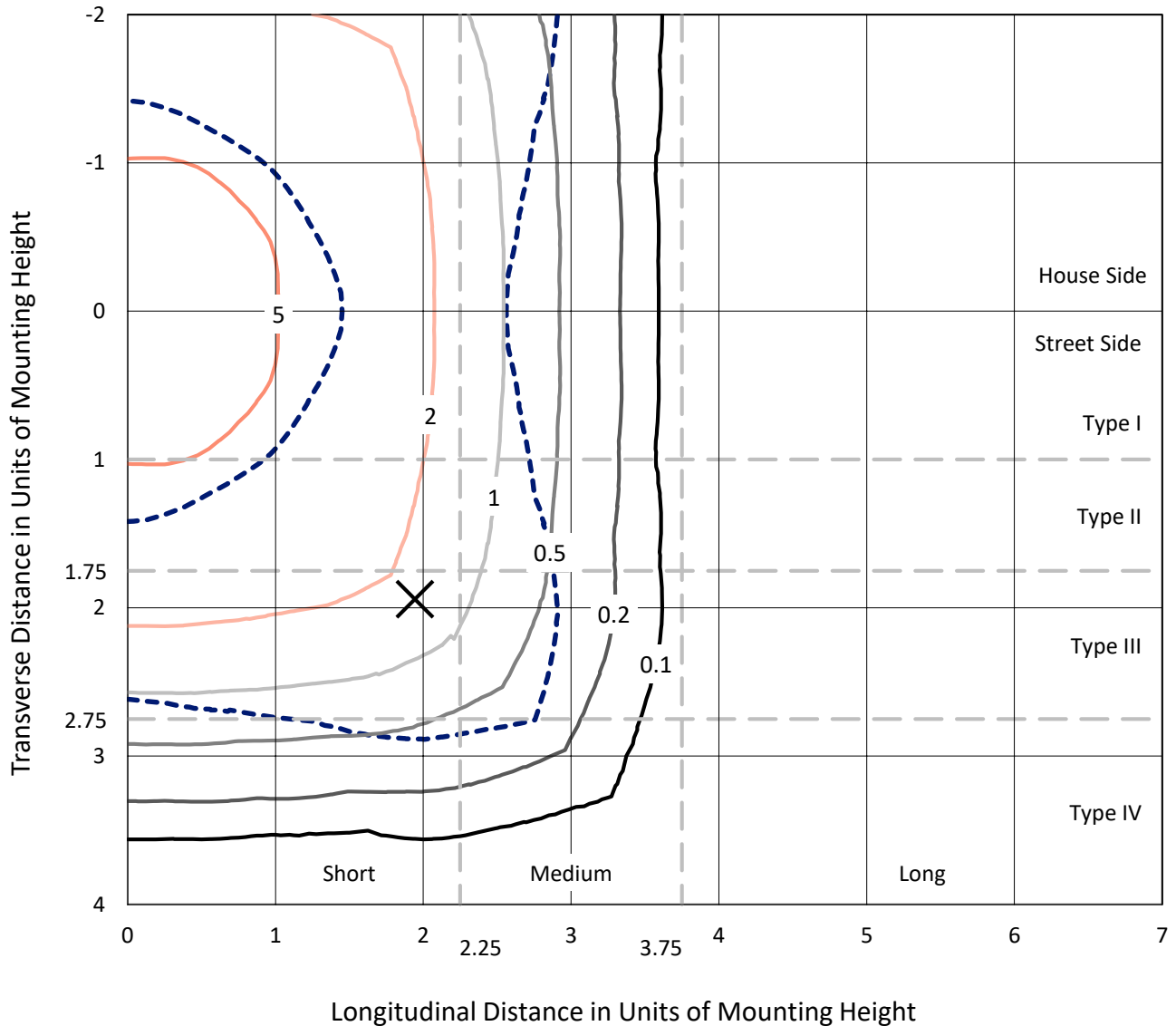
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383466  
 CATALOG NUMBER: GLEON-SA7D-735-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

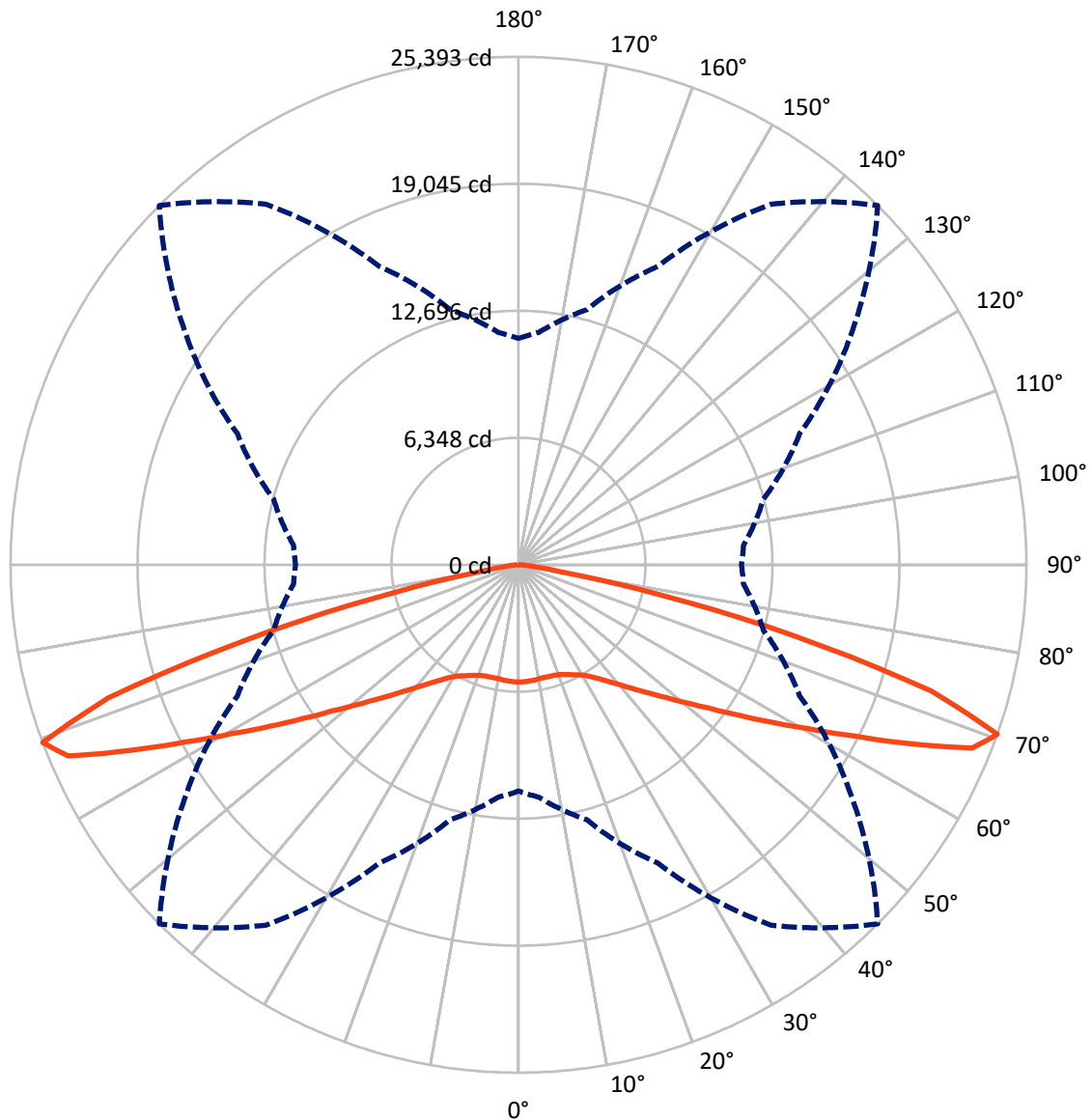
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type V - Short - N/A

REPORT NUMBER: P383466  
CATALOG NUMBER: GLEON-SA7D-735-U-5MQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P383466  
 CATALOG NUMBER: GLEON-SA7D-735-U-5MQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26853.3	0.0	26853.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26853.3	0.0	26853.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	53706.5	0.0	53706.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.5	1.0
10°-20°	1630.9	3.0
20°-30°	2776.3	5.2
30°-40°	4403.2	8.2
40°-50°	7165.4	13.3
50°-60°	11814.4	22.0
60°-70°	17343.9	32.3
70°-80°	7669.5	14.3
80°-90°	347.3	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°	53706.5	100.0
0°-180°	53706.5	100.0

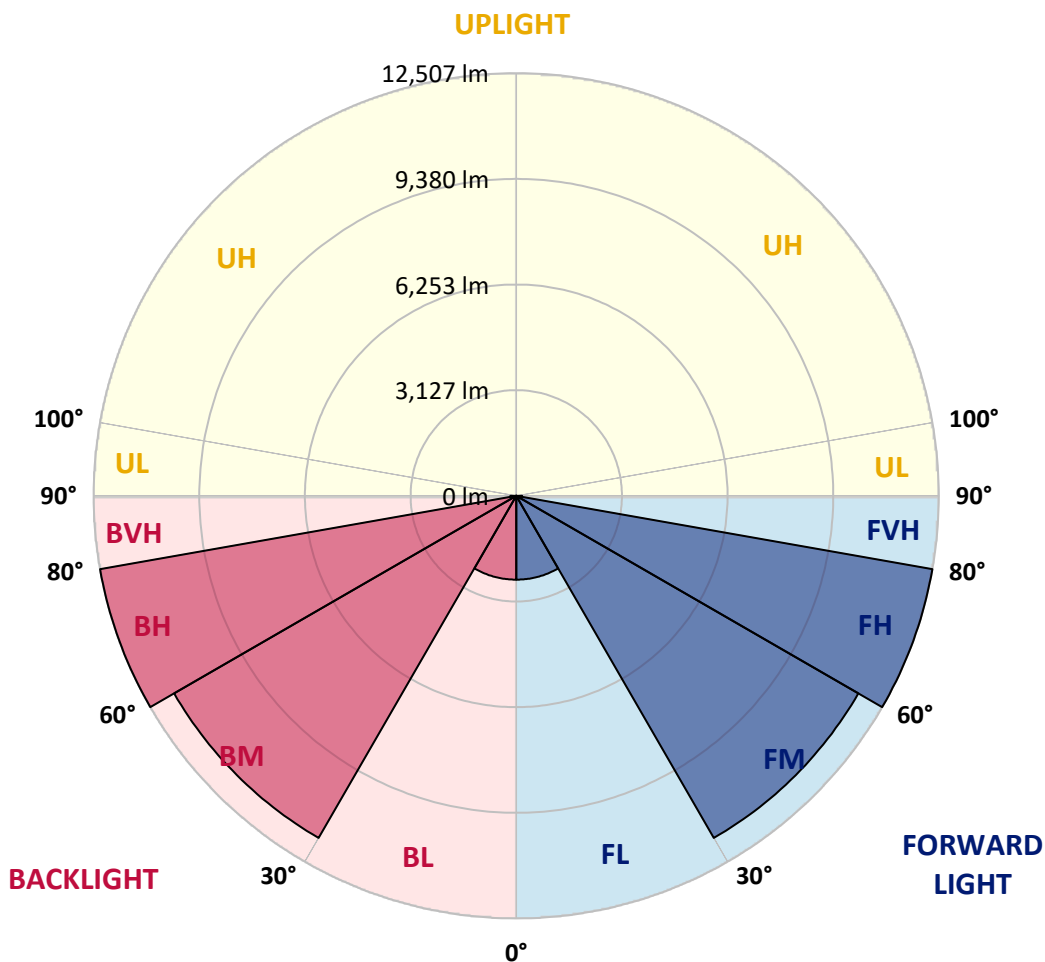


REPORT NUMBER: P383466  
 CATALOG NUMBER: GLEON-SA7D-735-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2481.4	4.6			
FM (30°-60°)	11691.5	21.8			
FH (60°-80°)	12506.7	23.3			G5
FVH (80°-90°)	173.7	0.3			G2/225
BL (0°-30°)	2481.4	4.6	B3/2500		
BM (30°-60°)	11691.5	21.8	B5		
BH (60°-80°)	12506.7	23.3	B5		G5
BVH (80°-90°)	173.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type V Short





REPORT NUMBER: P383466  
 CATALOG NUMBER: GLEON-SA7D-735-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5865.6	5865.6	5865.6	5865.6	5865.6	5865.6	5865.6	5865.6	5865.6	5865.6	5865.6
2.5°	5856.7	5851.3	5863.8	5862.0	5851.3	5853.1	5853.1	5858.5	5858.5	5855.0	5855.0
5°	5835.4	5831.9	5846.0	5846.0	5835.4	5838.9	5842.5	5847.8	5846.0	5842.5	5840.7
7.5°	5808.7	5806.9	5821.1	5821.1	5814.1	5817.6	5814.1	5815.8	5812.3	5808.7	5803.4
10°	5764.2	5767.9	5780.3	5783.8	5783.8	5785.6	5782.0	5773.2	5767.9	5762.5	5757.2
12.5°	5723.4	5721.7	5739.4	5748.3	5762.5	5778.5	5767.9	5742.9	5732.3	5721.7	5718.0
15°	5696.7	5698.5	5716.3	5732.3	5757.2	5791.0	5778.5	5739.4	5718.0	5705.6	5702.1
17.5°	5691.4	5694.9	5718.0	5746.5	5773.2	5810.5	5803.4	5764.2	5728.7	5705.6	5700.3
20°	5703.9	5705.6	5741.1	5782.0	5828.2	5863.8	5847.8	5805.1	5757.2	5721.7	5712.7
22.5°	5727.0	5734.0	5778.5	5842.5	5913.6	5961.5	5942.1	5869.1	5794.5	5750.1	5737.6
25°	5799.8	5801.6	5862.0	5949.1	6034.5	6089.5	6066.4	5963.3	5867.4	5817.6	5801.6
27.5°	5950.9	5956.2	6016.7	6117.9	6190.9	6226.4	6212.2	6128.7	6046.9	5993.6	5998.9
30°	6169.5	6176.6	6244.2	6356.1	6400.6	6409.5	6406.0	6366.8	6292.1	6221.1	6226.4
32.5°	6436.2	6439.7	6530.3	6631.7	6667.2	6674.4	6667.2	6631.7	6542.8	6446.8	6452.2
35°	6779.2	6789.9	6877.0	6974.7	7003.2	7017.3	7005.0	6958.8	6866.3	6772.1	6768.5
37.5°	7202.3	7204.0	7294.7	7395.9	7431.5	7435.1	7420.9	7390.6	7275.1	7189.8	7184.5
40°	7692.8	7699.9	7806.6	7915.0	7929.2	7913.2	7932.8	7915.0	7795.9	7698.1	7714.1
42.5°	8290.0	8306.1	8434.0	8540.6	8499.8	8490.9	8503.4	8508.7	8412.7	8293.6	8282.9
45°	8985.1	8999.2	9159.2	9244.5	9217.8	9159.2	9184.1	9226.8	9093.4	8945.9	8960.1
47.5°	9777.7	9813.3	9984.0	10063.9	9998.1	9918.2	9966.2	10030.2	9873.8	9690.7	9681.8
50°	10659.3	10703.8	10931.3	11043.3	10977.5	10830.0	10910.0	10952.7	10727.0	10490.5	10471.0
52.5°	11599.6	11644.1	11930.2	12161.4	12118.7	11889.3	12001.3	11956.9	11697.4	11379.2	11354.4
55°	12664.3	12682.1	12991.4	13364.6	13407.3	13238.4	13231.3	13158.5	12774.5	12406.6	12388.8
57.5°	13759.2	13771.7	14171.6	14612.4	14813.3	14813.3	14614.2	14459.6	13949.5	13522.8	13478.4
60°	14941.3	14985.7	15428.3	16027.3	16496.5	16635.2	16283.3	15861.9	15307.4	14786.6	14735.0
62.5°	15993.5	16045.1	16722.2	17614.5	18368.2	18873.0	18012.7	17326.6	16317.0	15481.6	15383.9
65°	16126.8	16265.5	17252.0	18867.7	20554.4	21562.3	19912.8	18222.5	16382.8	15222.0	15122.6
67.5°	14728.0	14962.6	16295.7	18810.7	22296.3	24459.5	21126.8	17710.5	15202.6	13919.2	13809.0
70°	11317.0	11658.3	13195.8	16453.8	21996.0	25392.7	20366.1	15504.7	12675.0	11293.9	11139.3
72.5°	6208.7	6349.1	7731.9	11267.3	17634.1	21578.3	16987.0	11464.6	8405.5	6839.6	6580.1
75°	1969.4	2019.2	2723.1	4610.7	9975.0	14292.5	10790.9	5627.4	3098.1	2284.1	2257.3
77.5°	874.5	879.8	984.7	1345.5	3435.8	7241.3	4127.2	1532.1	1055.8	922.5	952.7
80°	552.8	552.8	609.7	666.5	934.9	2102.7	1116.3	728.7	622.1	577.7	590.1
82.5°	264.8	293.3	396.4	426.6	513.7	707.4	572.3	476.4	415.9	309.3	287.9
85°	174.2	145.8	250.6	282.6	298.7	339.5	332.4	314.6	271.9	154.6	172.4
87.5°	78.2	74.6	129.8	119.1	112.0	85.3	128.0	158.2	152.9	76.4	76.4
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)