

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: P317252

Luminaire Tested: **GLEON-SA8C-827-U-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317252  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8C-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42596 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

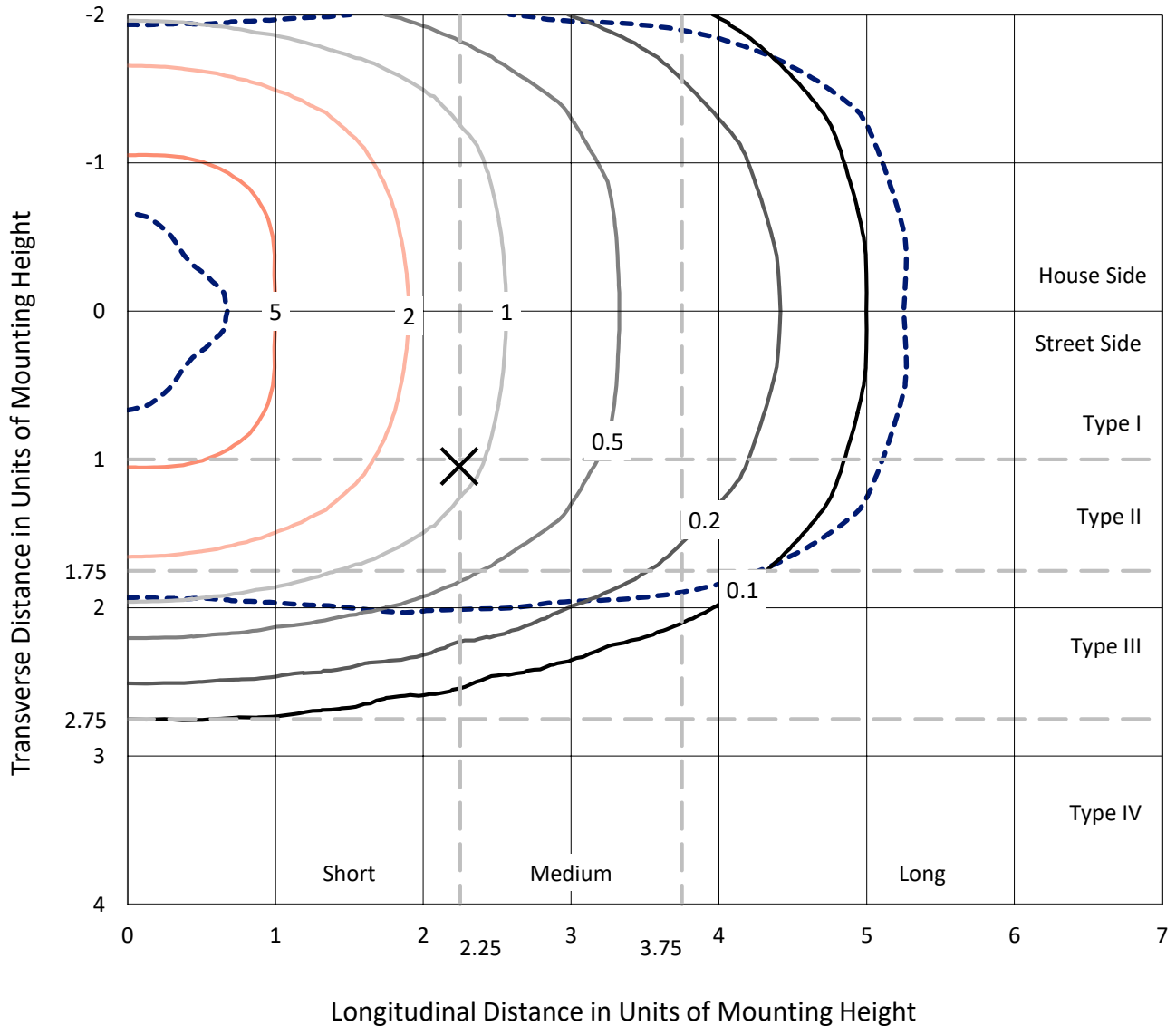
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

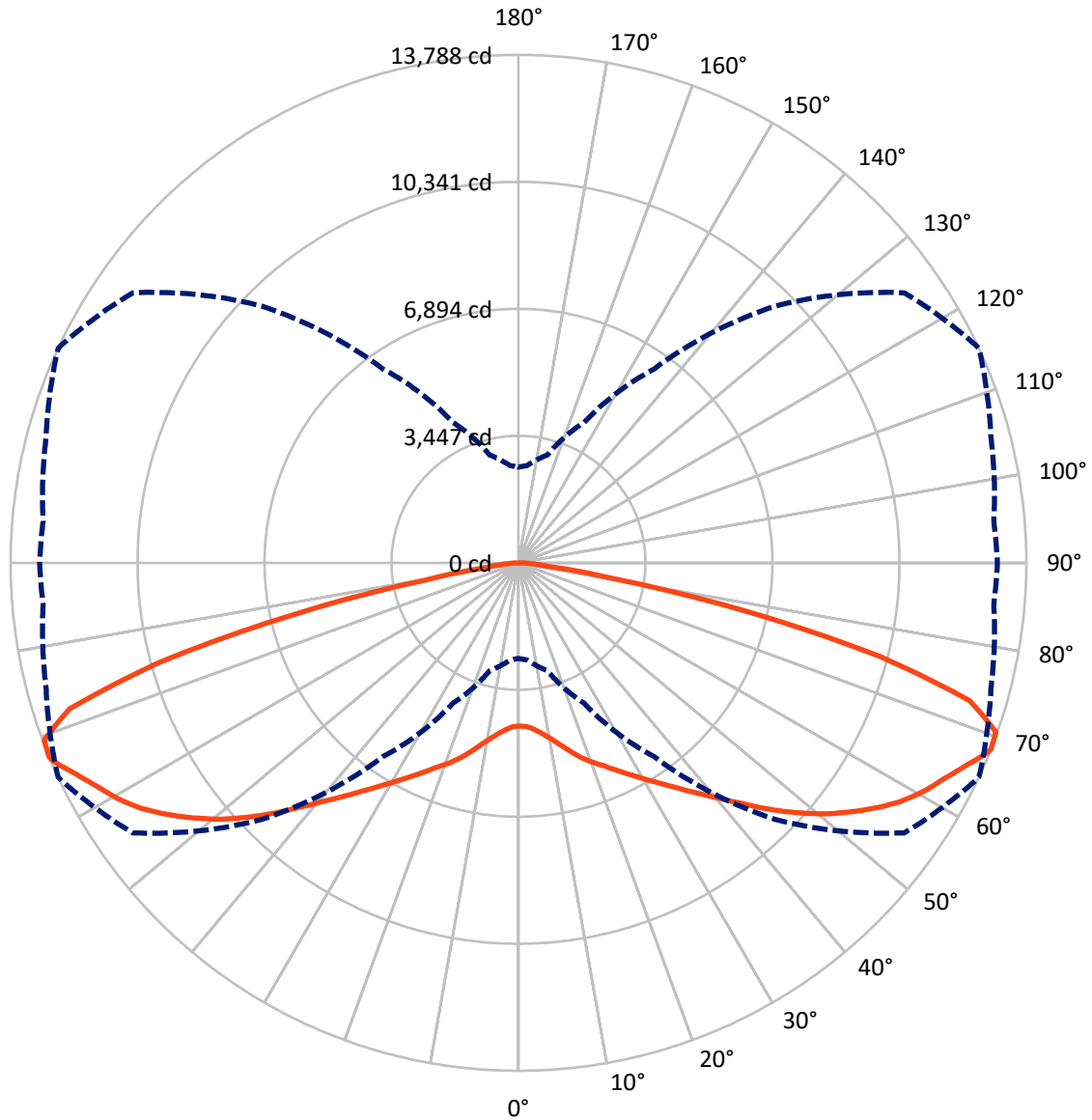
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21298.0	0.0	21298.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21298.0	0.0	21298.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42596.0	0.0	42596.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.6	1.0
10°-20°	1452.0	3.4
20°-30°	2831.0	6.6
30°-40°	4755.8	11.2
40°-50°	7493.5	17.6
50°-60°	10021.2	23.5
60°-70°	9741.9	22.9
70°-80°	5325.4	12.5
80°-90°	541.6	1.3
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°	42596.0	100.0
0°-180°	42596.0	100.0

**Coefficient of Utilization**



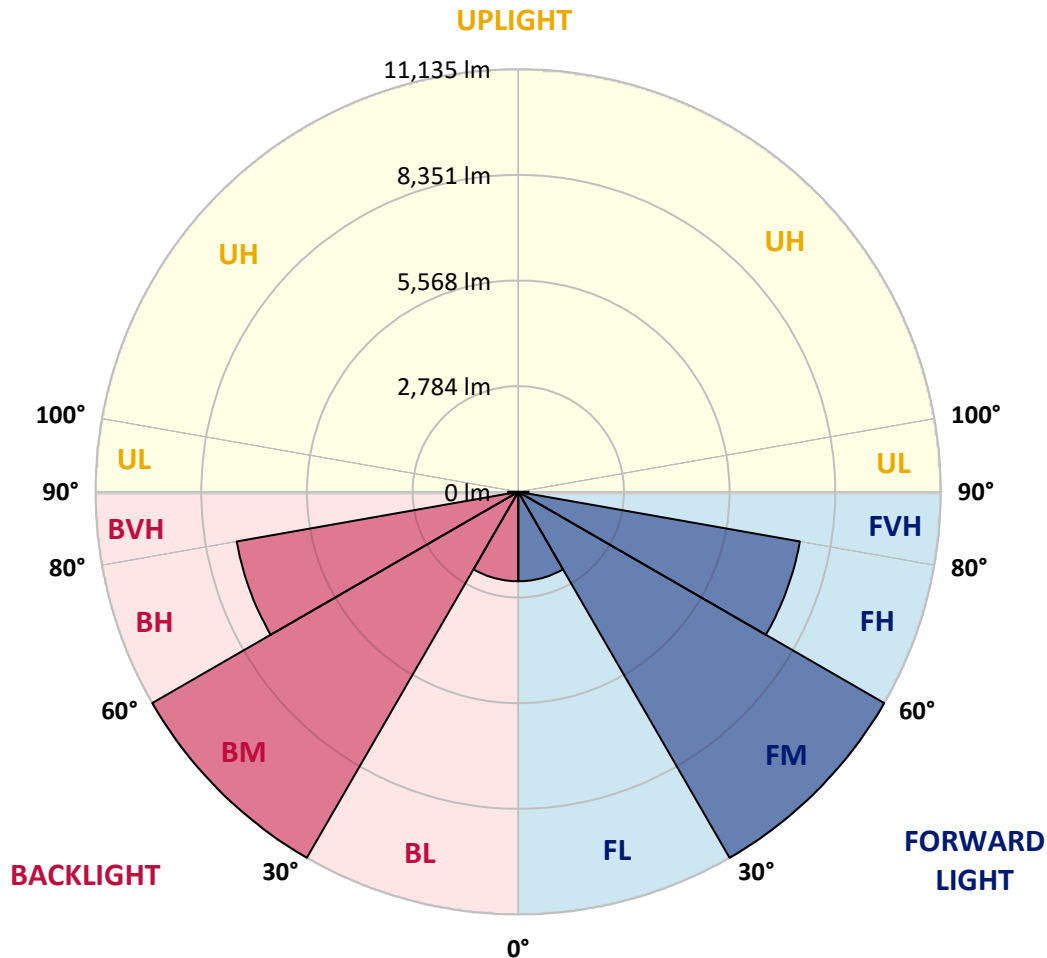
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2358.3	5.5			
FM (30°-60°)	11135.3	26.1			
FH (60°-80°)	7533.7	17.7			G4/12000
FVH (80°-90°)	270.8	0.6			G3/500
BL (0°-30°)	2358.3	5.5	B3/2500		
BM (30°-60°)	11135.3	26.1	B5		
BH (60°-80°)	7533.7	17.7	B5		G5
BVH (80°-90°)	270.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4429.0	4429.0	4429.0	4429.0	4429.0	4429.0	4429.0	4429.0	4429.0	4429.0	4429.0
2.5°	4397.6	4399.0	4406.1	4414.7	4421.8	4440.4	4444.7	4451.8	4454.7	4461.8	4461.8
5°	4359.0	4361.9	4379.0	4401.8	4427.6	4473.3	4506.1	4543.2	4561.8	4581.8	4580.4
7.5°	4354.7	4361.9	4386.1	4423.3	4466.1	4541.8	4610.4	4684.6	4734.6	4780.3	4777.5
10°	4399.0	4410.4	4444.7	4500.4	4564.7	4658.9	4760.3	4860.3	4947.4	5017.4	5020.3
12.5°	4466.1	4480.4	4534.7	4618.9	4716.1	4837.5	4957.4	5070.3	5190.2	5294.5	5303.1
15°	4554.7	4573.2	4654.6	4780.3	4928.9	5073.1	5201.7	5317.3	5455.9	5600.1	5614.4
17.5°	4686.1	4711.8	4818.9	4988.9	5184.5	5343.1	5477.3	5564.4	5680.1	5828.7	5855.8
20°	4886.0	4918.9	5054.6	5257.4	5495.9	5661.6	5764.4	5783.0	5840.1	5972.9	6004.3
22.5°	5146.0	5174.5	5325.9	5567.3	5834.4	6014.3	6068.6	5994.3	5988.6	6095.7	6125.7
25°	5435.9	5461.6	5637.3	5908.6	6195.7	6394.2	6392.8	6248.6	6148.6	6231.4	6262.8
27.5°	5761.5	5801.5	5970.1	6255.7	6562.8	6758.4	6747.0	6524.2	6334.3	6355.7	6382.8
30°	6135.7	6180.0	6344.3	6634.2	6941.3	7132.6	7118.4	6824.1	6538.5	6481.4	6501.4
32.5°	6599.9	6652.8	6808.4	7094.1	7365.4	7538.3	7496.8	7149.8	6784.2	6659.9	6678.5
35°	7158.4	7189.8	7354.0	7635.4	7855.3	7973.9	7886.8	7526.8	7095.5	6945.5	6945.5
37.5°	7723.9	7748.2	7932.5	8205.3	8418.1	8480.9	8310.9	7939.6	7502.6	7289.8	7294.0
40°	8266.7	8332.4	8539.5	8819.4	9029.4	9046.5	8820.8	8410.9	7955.3	7735.4	7761.1
42.5°	8833.7	8898.0	9145.0	9462.1	9647.8	9676.3	9412.1	8939.4	8466.6	8288.1	8316.7
45°	9339.3	9390.7	9676.3	10044.8	10276.2	10350.5	10037.7	9544.9	9019.4	8845.1	8852.3
47.5°	9692.1	9759.2	10073.4	10507.6	10844.6	10958.9	10651.8	10134.8	9563.5	9352.1	9370.7
50°	10012.0	10047.7	10366.2	10840.4	11268.8	11504.5	11241.7	10717.5	10113.4	9889.2	9909.2
52.5°	10190.5	10236.2	10544.7	11038.9	11545.9	11925.8	11765.9	11241.7	10644.7	10426.2	10450.5
55°	10066.3	10100.5	10470.4	11083.2	11717.3	12185.8	12210.0	11754.4	11166.0	10974.6	11043.2
57.5°	9500.7	9543.5	9994.8	10797.5	11738.7	12361.4	12544.3	12230.0	11653.0	11497.4	11537.3
60°	8616.6	8643.7	9125.0	10027.7	11321.7	12434.3	12757.1	12618.5	12130.1	11974.4	12028.7
62.5°	7041.2	7081.2	7656.8	8866.5	10440.5	12218.6	12962.7	12939.9	12574.3	12431.4	12480.0
65°	4813.2	4883.2	5520.2	7049.8	9082.2	11558.8	13149.8	13314.1	12967.0	12787.1	12851.3
67.5°	2906.5	2957.9	3419.2	4654.6	6949.8	10227.6	12957.0	13739.7	13244.1	12954.2	13007.0
68°	2598.0	2645.1	3030.7	4200.5	6428.5	9852.0	12781.3	13788.3	13274.1	12951.3	12998.4
70°	1569.6	1601.1	1859.6	2596.5	4286.2	7815.3	11583.1	13748.3	13465.5	12991.3	13018.4
72.5°	1022.6	1032.6	1075.5	1332.6	2189.5	4370.4	8693.7	12811.3	13752.6	13224.1	13219.8
75°	849.8	844.1	848.4	878.4	1079.8	1916.7	5080.3	10120.5	13109.8	12857.0	12767.1
77.5°	718.4	714.1	712.7	714.1	722.7	925.5	2205.2	6304.3	10032.0	11373.1	11453.1
80°	581.3	575.6	594.1	585.6	559.9	575.6	924.1	2622.3	4728.9	5087.4	4767.5
82.5°	422.8	401.3	481.3	458.5	437.0	405.6	509.9	846.9	1128.3	774.1	544.2
85°	325.6	302.8	365.6	351.3	299.9	207.1	302.8	414.2	457.0	261.4	205.7
87.5°	132.8	140.0	264.2	208.5	175.7	100.0	124.3	165.7	222.8	111.4	85.7
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)