

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: P317241

Luminaire Tested: **GLEON-SA7B-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317241
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-SA7B-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30373 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

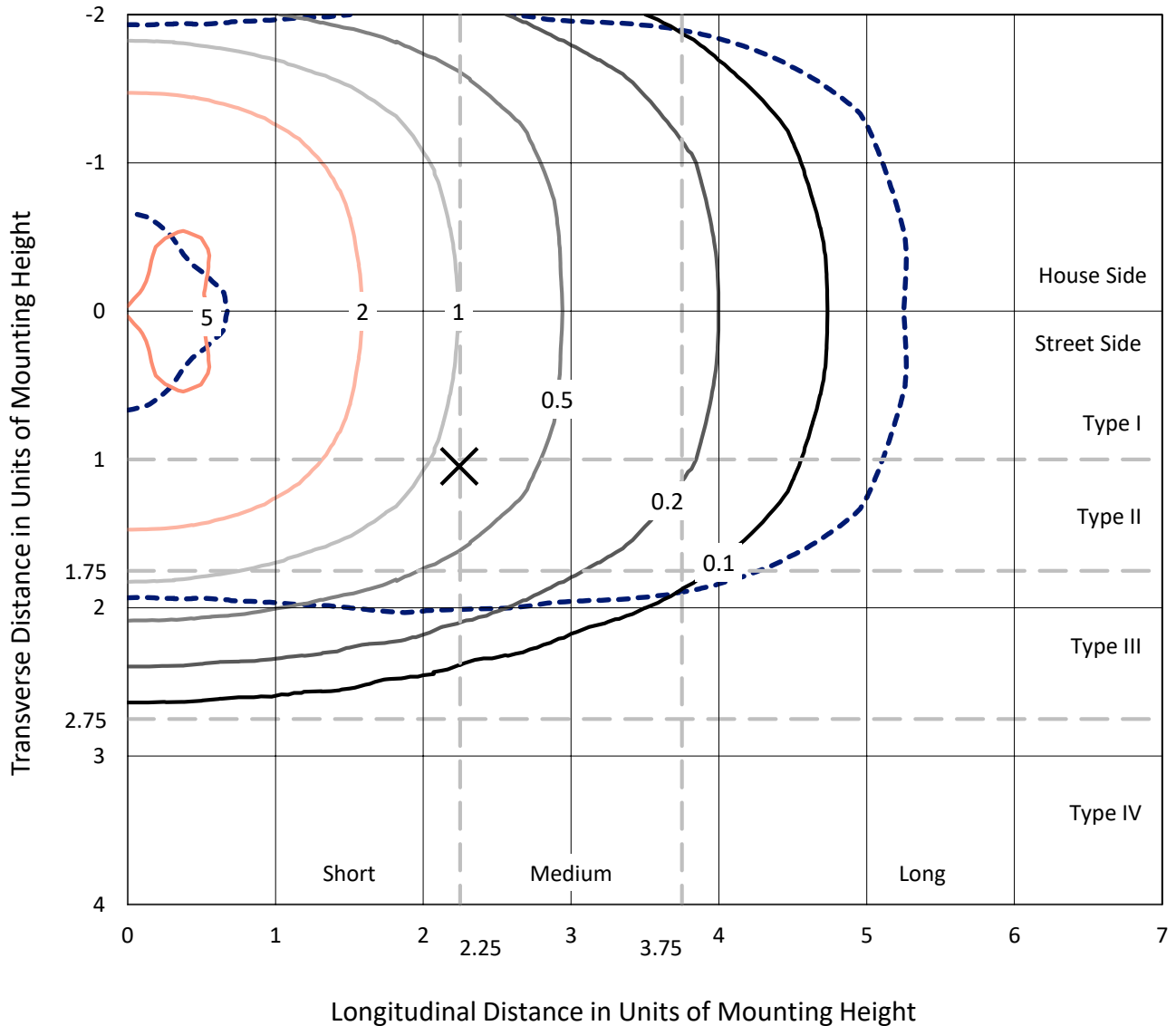
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

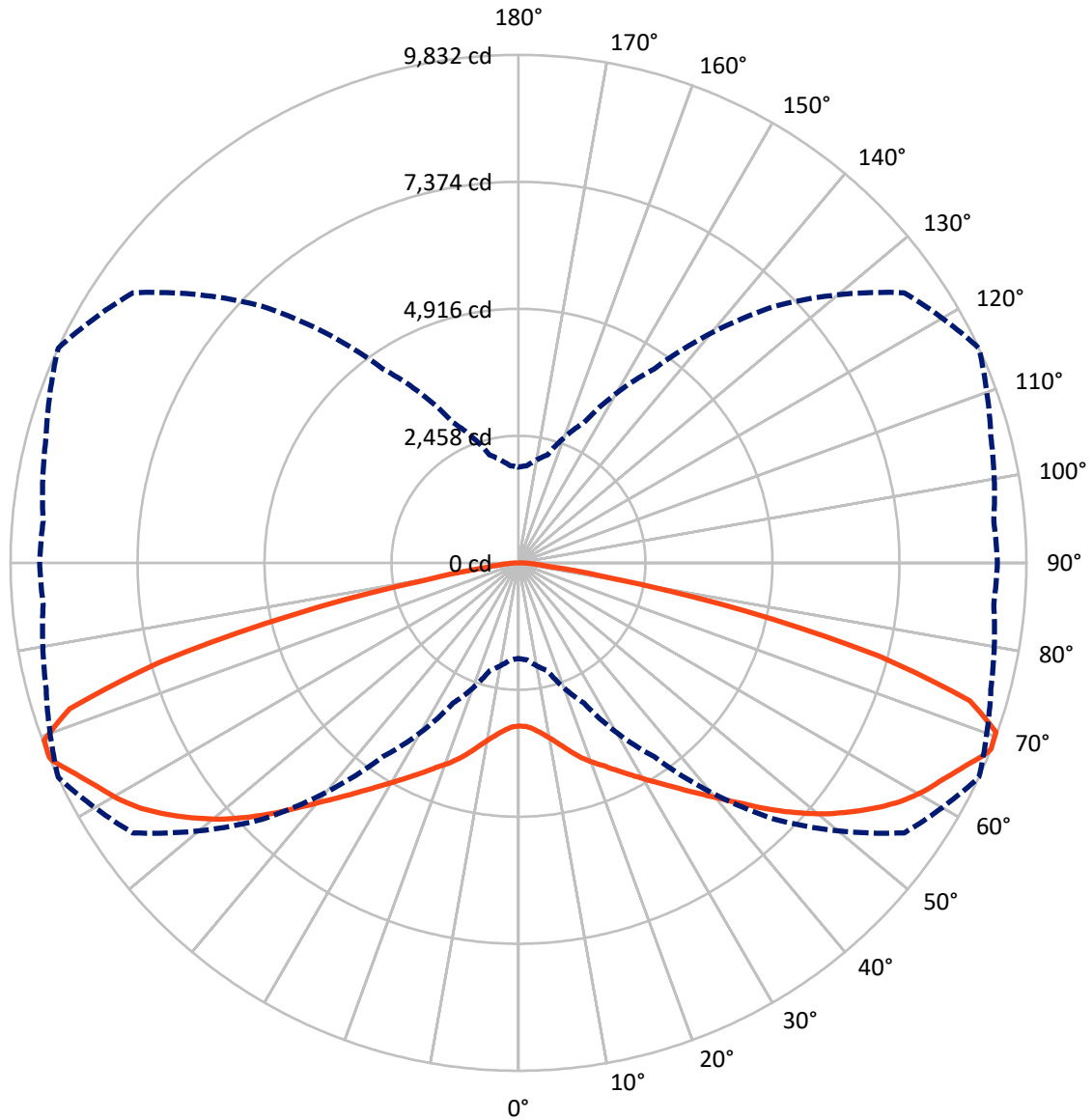
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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
House Side	Lumens	15186.5	0.0	15186.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15186.5	0.0	15186.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30373.0	0.0	30373.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.2	1.0
10°-20°	1035.3	3.4
20°-30°	2018.6	6.6
30°-40°	3391.1	11.2
40°-50°	5343.2	17.6
50°-60°	7145.6	23.5
60°-70°	6946.5	22.9
70°-80°	3797.3	12.5
80°-90°	386.2	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°	30373.0	100.0
0°-180°	30373.0	100.0

Coefficient of Utilization



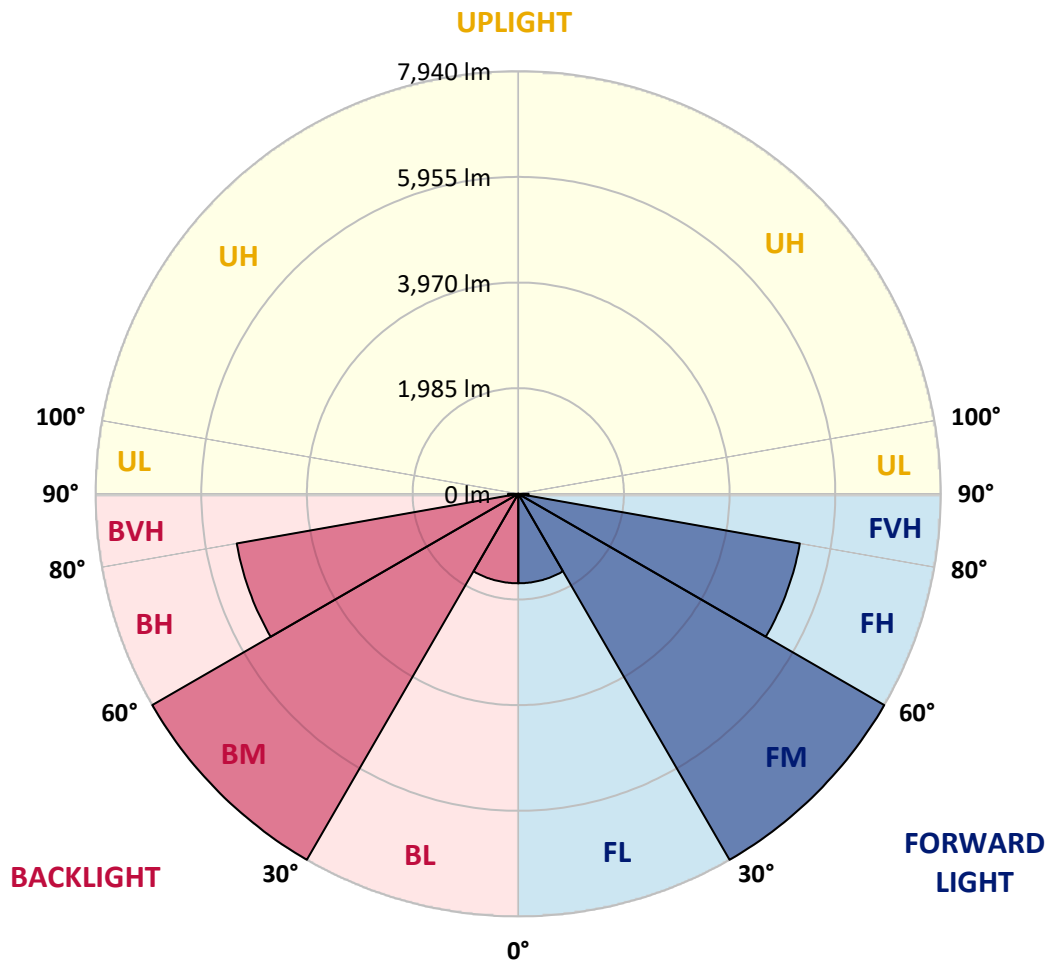
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1681.6	5.5			
FM (30°-60°)	7940.0	26.1			
FH (60°-80°)	5371.9	17.7			G3/7500
FVH (80°-90°)	193.1	0.6			G2/225
BL (0°-30°)	1681.6	5.5	B3/2500		
BM (30°-60°)	7940.0	26.1	B4/8500		
BH (60°-80°)	5371.9	17.7	B5		G5
BVH (80°-90°)	193.1	0.6			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1	3158.1
2.5°	3135.7	3136.7	3141.8	3147.9	3153.0	3166.2	3169.3	3174.4	3176.4	3181.5	3181.5
5°	3108.2	3110.2	3122.4	3138.7	3157.1	3189.6	3213.1	3239.5	3252.8	3267.0	3266.0
7.5°	3105.1	3110.2	3127.5	3154.0	3184.6	3238.5	3287.4	3340.4	3376.0	3408.6	3406.6
10°	3136.7	3144.8	3169.3	3209.0	3254.8	3322.0	3394.3	3465.6	3527.8	3577.7	3579.7
12.5°	3184.6	3194.7	3233.4	3293.5	3362.8	3449.3	3534.9	3615.3	3700.9	3775.2	3781.3
15°	3247.7	3260.9	3319.0	3408.6	3514.5	3617.4	3709.0	3791.5	3890.3	3993.2	4003.4
17.5°	3341.4	3359.7	3436.1	3557.3	3696.8	3809.9	3905.6	3967.7	4050.2	4156.1	4175.5
20°	3484.0	3507.4	3604.1	3748.8	3918.8	4037.0	4110.3	4123.5	4164.3	4259.0	4281.4
22.5°	3669.3	3689.7	3797.6	3969.7	4160.2	4288.5	4327.2	4274.3	4270.2	4346.6	4367.9
25°	3876.1	3894.4	4019.6	4213.1	4417.8	4559.4	4558.4	4455.5	4384.2	4443.3	4465.7
27.5°	4108.3	4136.8	4256.9	4460.6	4679.6	4819.1	4811.0	4652.1	4516.6	4531.9	4551.3
30°	4375.1	4406.6	4523.8	4730.5	4949.5	5085.9	5075.7	4865.9	4662.3	4621.5	4635.8
32.5°	4706.1	4743.7	4854.7	5058.4	5251.9	5375.1	5345.6	5098.1	4837.4	4748.8	4762.1
35°	5104.3	5126.7	5243.8	5444.4	5601.2	5685.8	5623.6	5367.0	5059.4	4952.5	4952.5
37.5°	5507.5	5524.9	5656.2	5850.7	6002.5	6047.3	5926.1	5661.3	5349.7	5197.9	5201.0
40°	5894.5	5941.4	6089.1	6288.7	6438.4	6450.6	6289.7	5997.4	5672.5	5515.7	5534.0
42.5°	6298.8	6344.7	6520.9	6746.9	6879.3	6899.7	6711.3	6374.2	6037.1	5909.8	5930.2
45°	6659.4	6696.0	6899.7	7162.5	7327.4	7380.4	7157.4	6806.0	6431.2	6307.0	6312.1
47.5°	6910.9	6958.8	7182.8	7492.4	7732.8	7814.2	7595.3	7226.6	6819.2	6668.5	6681.8
50°	7139.0	7164.5	7391.6	7729.7	8035.2	8203.3	8015.9	7642.1	7211.3	7051.4	7065.7
52.5°	7266.3	7298.9	7518.9	7871.3	8232.8	8503.7	8389.6	8015.9	7590.2	7434.4	7451.7
55°	7177.7	7202.2	7465.9	7902.8	8355.0	8689.0	8706.4	8381.5	7961.9	7825.4	7874.3
57.5°	6774.4	6805.0	7126.8	7699.2	8370.3	8814.3	8944.7	8720.6	8309.2	8198.2	8226.7
60°	6144.0	6163.4	6506.6	7150.2	8072.9	8866.2	9096.4	8997.6	8649.3	8538.3	8577.0
62.5°	5020.7	5049.3	5459.7	6322.3	7444.5	8712.5	9243.1	9226.8	8966.0	8864.2	8898.8
65°	3432.0	3481.9	3936.1	5026.9	6476.0	8242.0	9376.5	9493.6	9246.1	9117.8	9163.6
67.5°	2072.5	2109.1	2438.1	3319.0	4955.6	7292.8	9239.0	9797.1	9443.7	9236.9	9274.6
68°	1852.5	1886.1	2161.1	2995.1	4583.8	7025.0	9113.7	9831.7	9465.1	9234.9	9268.5
70°	1119.2	1141.6	1326.0	1851.5	3056.2	5572.7	8259.3	9803.2	9601.5	9263.4	9282.8
72.5°	729.2	736.3	766.9	950.2	1561.2	3116.3	6199.0	9135.1	9806.2	9429.4	9426.4
75°	606.0	601.9	604.9	626.3	769.9	1366.7	3622.5	7216.4	9347.9	9167.7	9103.5
77.5°	512.3	509.2	508.2	509.2	515.3	659.9	1572.4	4495.2	7153.3	8109.6	8166.6
80°	414.5	410.4	423.7	417.5	399.2	410.4	658.9	1869.8	3371.9	3627.6	3399.4
82.5°	301.4	286.2	343.2	326.9	311.6	289.2	363.6	603.9	804.5	552.0	388.0
85°	232.2	215.9	260.7	250.5	213.9	147.7	215.9	295.3	325.9	186.4	146.7
87.5°	94.7	99.8	188.4	148.7	125.3	71.3	88.6	118.1	158.9	79.4	61.1
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)