

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: P316932

Luminaire Tested: **GLEON-SA8C-827-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316932
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-SA8C-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42984 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

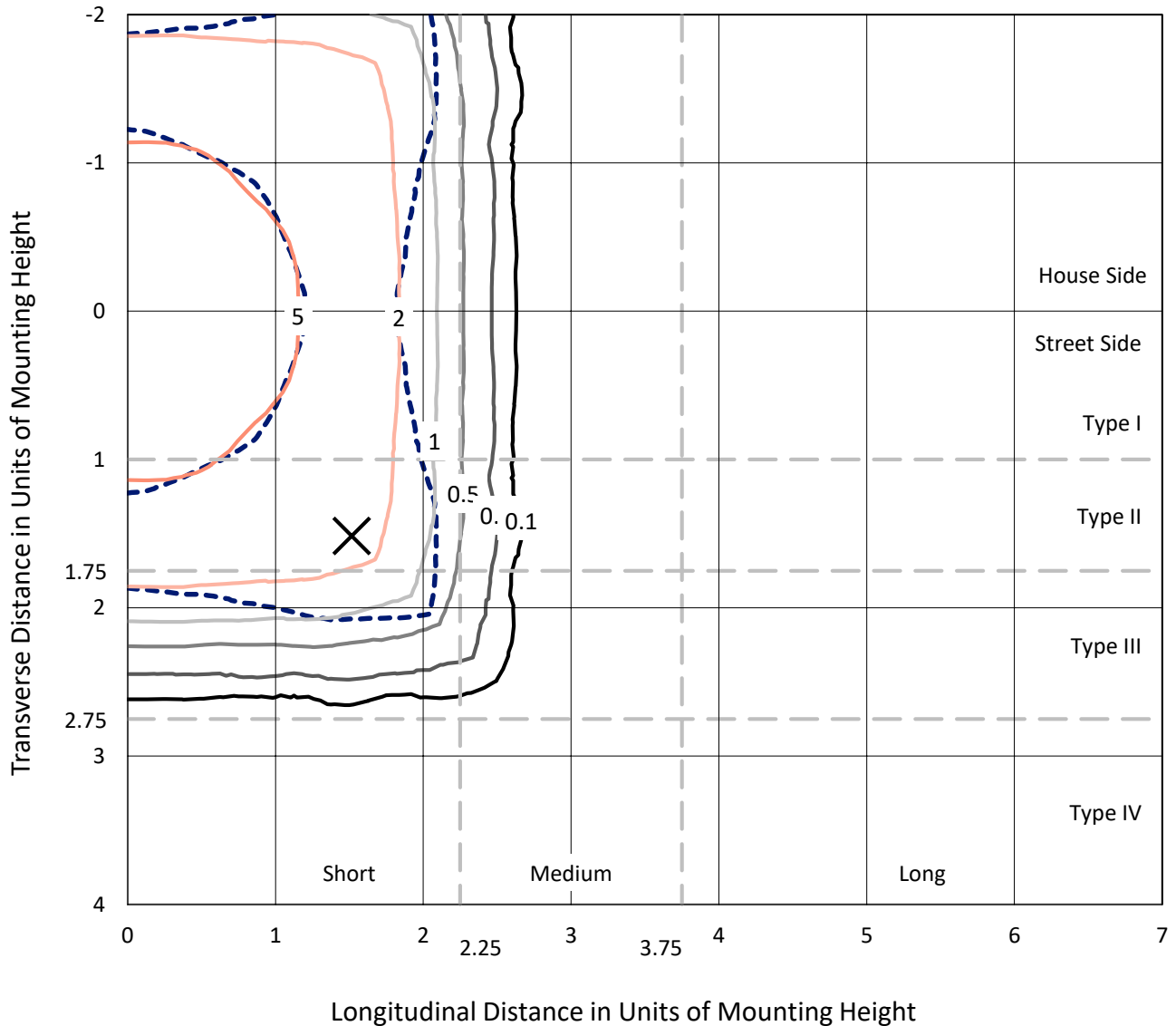
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P316932
 CATALOG NUMBER: GLEON-SA8C-827-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

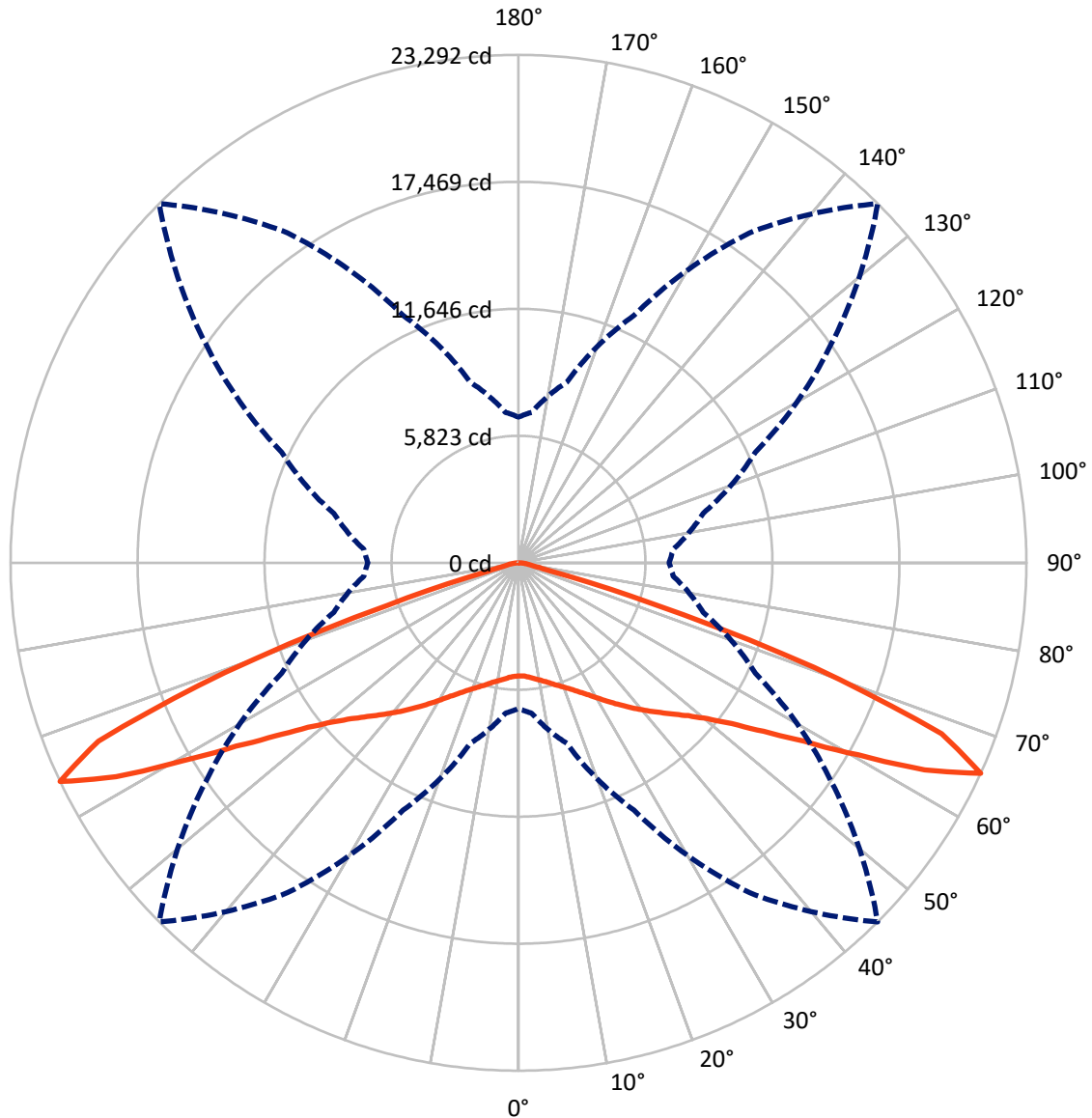
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - N/A

REPORT NUMBER: P316932
CATALOG NUMBER: GLEON-SA8C-827-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P316932
 CATALOG NUMBER: GLEON-SA8C-827-U-5NQ

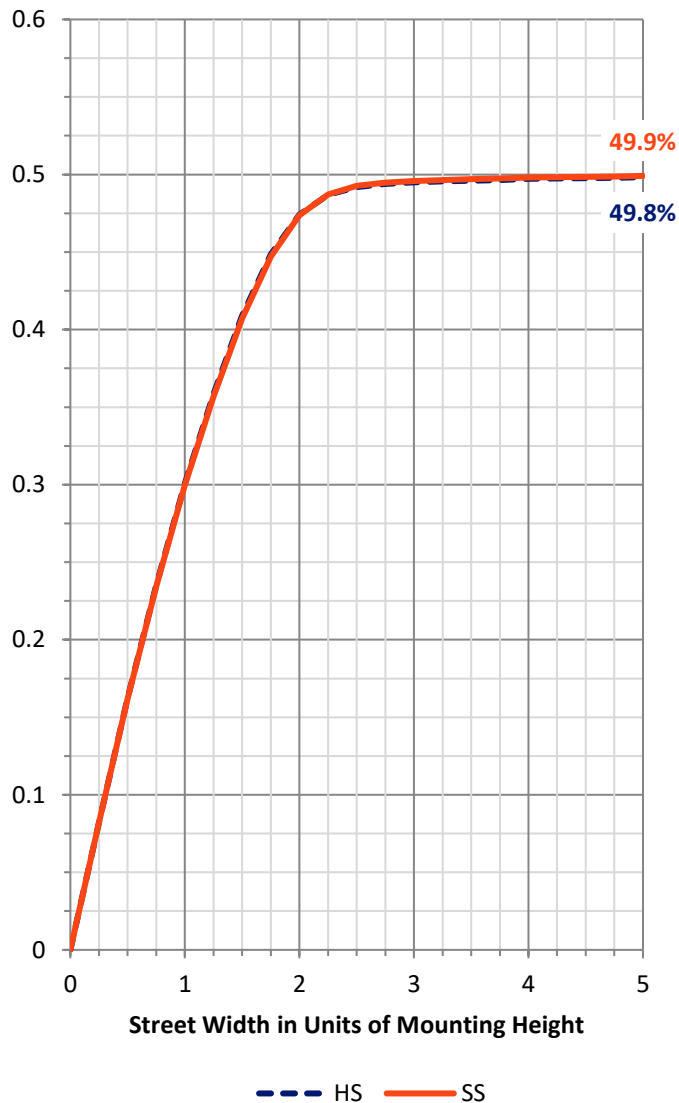
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21492.0	0.0	21492.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21492.0	0.0	21492.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42984.0	0.0	42984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.3	1.2
10°-20°	1637.0	3.8
20°-30°	3071.3	7.1
30°-40°	5079.4	11.8
40°-50°	7867.3	18.3
50°-60°	12066.2	28.1
60°-70°	11259.1	26.2
70°-80°	1310.4	3.0
80°-90°	184.1	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°	42984.0	100.0
0°-180°	42984.0	100.0

Coefficient of Utilization



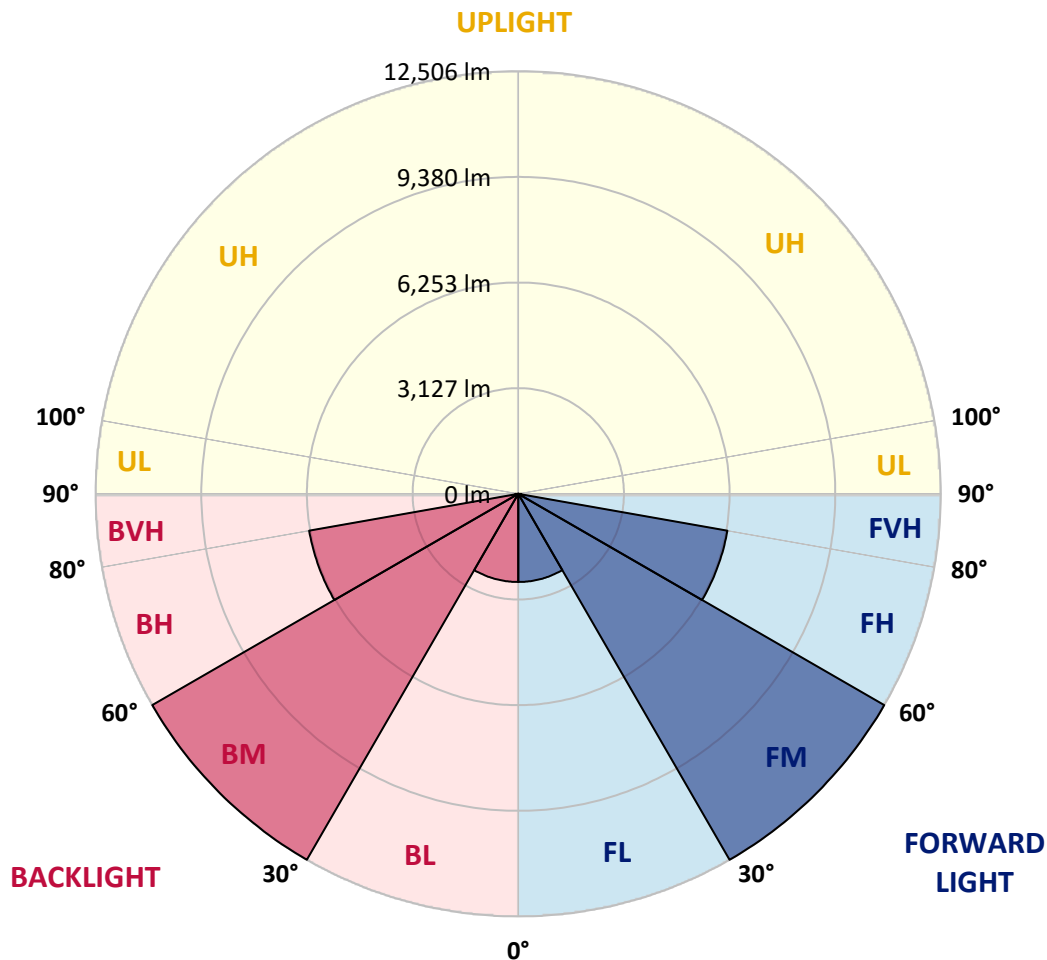
REPORT NUMBER: P316932
 CATALOG NUMBER: GLEON-SA8C-827-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2608.8	6.1			
FM (30°-60°)	12506.4	29.1			
FH (60°-80°)	6284.7	14.6			G3/7500
FVH (80°-90°)	92.1	0.2			G1/100
BL (0°-30°)	2608.8	6.1	B4/5000		
BM (30°-60°)	12506.4	29.1	B5		
BH (60°-80°)	6284.7	14.6	B5		G3/7500
BVH (80°-90°)	92.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P316932
 CATALOG NUMBER: GLEON-SA8C-827-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9	5190.9
2.5°	5208.0	5205.1	5208.0	5209.4	5200.9	5205.1	5203.7	5210.8	5213.7	5210.8	5210.8
5°	5267.9	5263.6	5269.3	5276.5	5265.1	5267.9	5263.6	5272.2	5275.0	5269.3	5273.6
7.5°	5350.7	5352.1	5357.8	5370.6	5363.5	5369.2	5360.7	5362.1	5360.7	5352.1	5353.5
10°	5440.6	5442.0	5452.0	5469.1	5472.0	5472.0	5466.2	5462.0	5456.3	5450.5	5452.0
12.5°	5549.0	5556.1	5563.3	5584.7	5584.7	5596.1	5593.2	5581.8	5571.8	5563.3	5563.3
15°	5696.0	5694.5	5703.1	5724.5	5734.5	5753.0	5753.0	5737.3	5724.5	5715.9	5713.1
17.5°	5850.1	5854.3	5860.1	5885.7	5901.4	5922.8	5925.7	5912.8	5904.3	5892.9	5885.7
20°	6029.8	6037.0	6059.8	6069.8	6084.1	6104.0	6111.2	6108.3	6099.8	6094.1	6095.5
22.5°	6239.6	6258.1	6272.4	6286.7	6303.8	6318.1	6325.2	6335.2	6326.6	6322.4	6319.5
25°	6493.6	6506.4	6535.0	6560.6	6572.0	6576.3	6584.9	6599.2	6597.7	6587.7	6587.7
27.5°	6781.8	6806.1	6841.7	6878.8	6878.8	6864.6	6893.1	6917.3	6908.8	6895.9	6878.8
30°	7131.4	7154.2	7195.6	7246.9	7221.3	7211.3	7249.8	7294.0	7281.2	7259.8	7256.9
32.5°	7508.1	7529.5	7583.7	7639.3	7606.5	7592.2	7633.6	7697.8	7675.0	7632.2	7606.5
35°	7916.1	7937.5	8014.6	8081.7	8026.0	8001.7	8036.0	8105.9	8066.0	7986.1	7966.1
37.5°	8359.9	8371.3	8471.2	8539.7	8501.1	8436.9	8479.7	8531.1	8496.9	8399.8	8361.3
40°	8820.8	8862.1	8977.7	9057.6	8990.6	8889.2	8960.6	9031.9	8980.6	8856.4	8790.8
42.5°	9358.7	9390.1	9544.2	9615.5	9507.1	9364.4	9461.4	9558.4	9507.1	9387.2	9330.1
45°	9918.0	9966.5	10150.6	10221.9	10065.0	9883.8	10002.2	10172.0	10167.7	9995.0	9935.1
47.5°	10527.3	10575.8	10795.5	10889.7	10719.9	10477.3	10644.3	10884.0	10866.9	10677.1	10628.6
50°	11230.7	11282.1	11556.0	11674.4	11516.1	11233.6	11484.7	11695.8	11664.5	11430.5	11434.7
52.5°	12113.9	12111.1	12452.1	12657.5	12494.9	12245.2	12476.3	12681.8	12552.0	12228.1	12218.1
55°	12887.3	12934.4	13356.7	13746.2	13736.2	13640.6	13733.4	13741.9	13371.0	12940.1	12887.3
57.5°	13395.2	13485.1	14080.1	14785.0	15312.9	15439.9	15260.1	14715.1	13846.1	13156.9	13072.8
60°	13082.7	13219.7	14154.3	15591.1	17146.4	17892.6	16878.2	15187.3	13476.6	12516.3	12402.1
62.5°	10973.9	11205.0	12573.4	15201.6	18724.5	20906.1	18051.0	14429.7	12006.9	10684.2	10488.7
65°	6683.3	6927.3	8576.8	12512.0	18469.1	23291.8	17515.9	11976.9	8763.7	7118.5	6907.4
67.5°	2227.3	2298.6	3270.3	6915.9	14515.3	20927.5	14539.6	7169.9	3814.0	2528.4	2454.2
70°	871.8	878.9	1037.3	2004.7	6854.6	14374.0	7563.7	2040.4	1084.4	857.5	876.1
72.5°	640.7	643.5	687.7	837.6	1786.4	6332.3	1850.6	841.8	669.2	600.7	600.7
75°	515.1	515.1	546.5	610.7	800.5	1452.5	811.9	603.6	523.7	479.4	473.7
77.5°	406.7	415.2	439.5	480.8	542.2	699.2	562.2	478.0	422.3	381.0	372.4
80°	302.5	311.1	351.0	371.0	389.5	485.1	415.2	373.8	333.9	285.4	276.8
82.5°	198.3	206.9	256.8	268.2	264.0	316.8	279.7	275.4	245.4	184.1	175.5
85°	129.8	132.7	171.2	178.4	164.1	144.1	178.4	188.3	171.2	119.9	115.6
87.5°	61.4	61.4	87.0	81.3	74.2	59.9	81.3	95.6	97.0	58.5	57.1
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)