

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: P316619

Luminaire Tested: **GLEON-SA5D-827-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316619
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-SA5D-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 29948 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

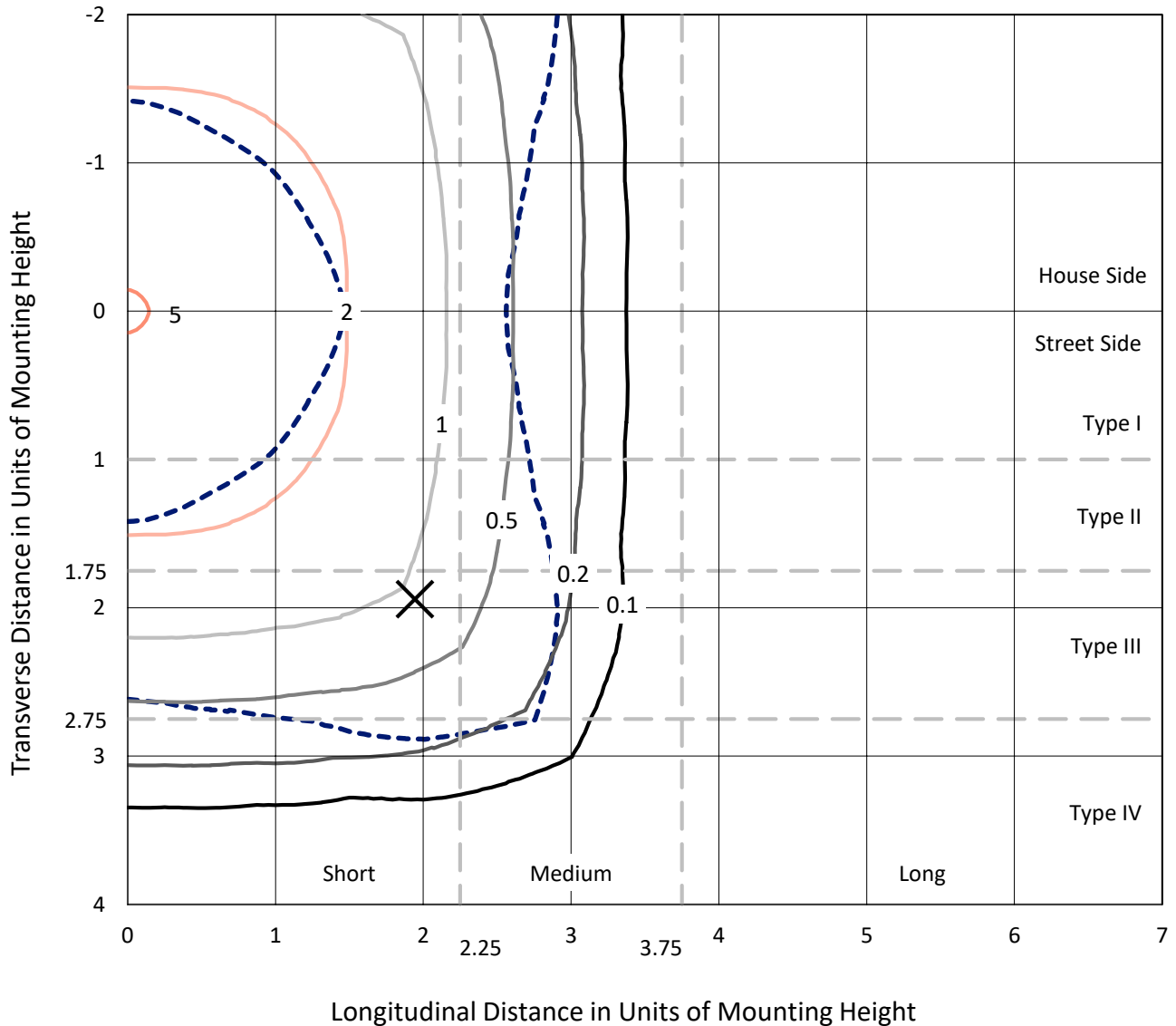
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P316619
 CATALOG NUMBER: GLEON-SA5D-827-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

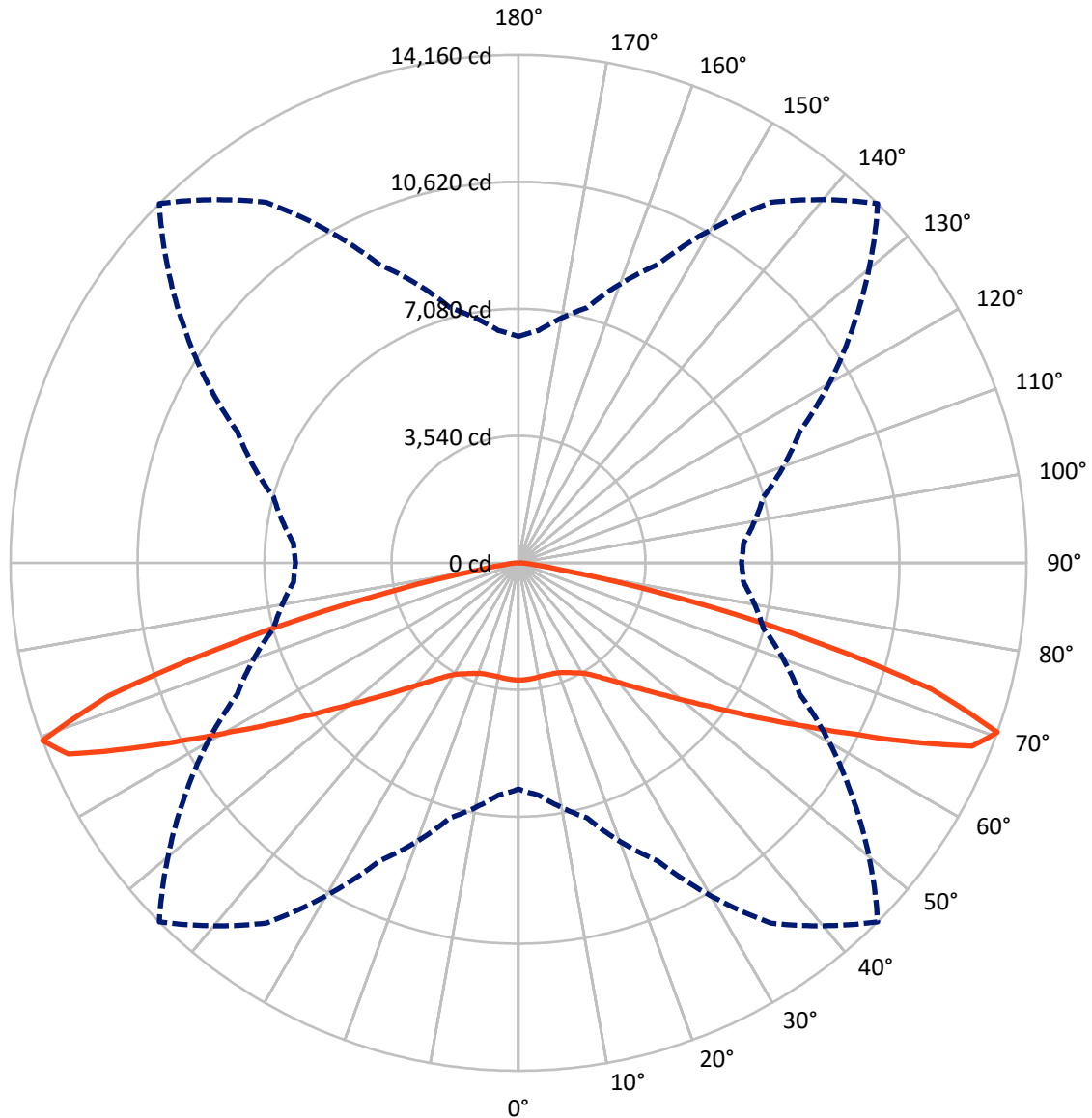
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - N/A

REPORT NUMBER: P316619
CATALOG NUMBER: GLEON-SA5D-827-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P316619
 CATALOG NUMBER: GLEON-SA5D-827-U-5MQ

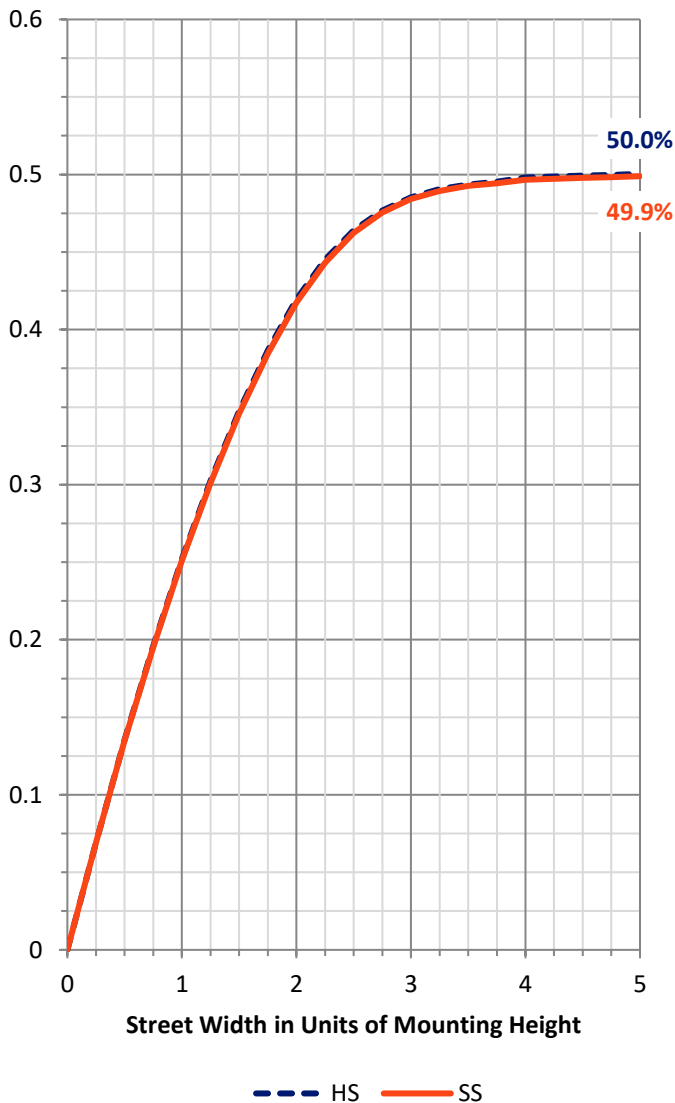
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14974.0	0.0	14974.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14974.0	0.0	14974.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29948.0	0.0	29948.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.8	1.0
10°-20°	909.4	3.0
20°-30°	1548.1	5.2
30°-40°	2455.3	8.2
40°-50°	3995.6	13.3
50°-60°	6588.0	22.0
60°-70°	9671.4	32.3
70°-80°	4276.7	14.3
80°-90°	193.7	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°	29948.0	100.0
0°-180°	29948.0	100.0



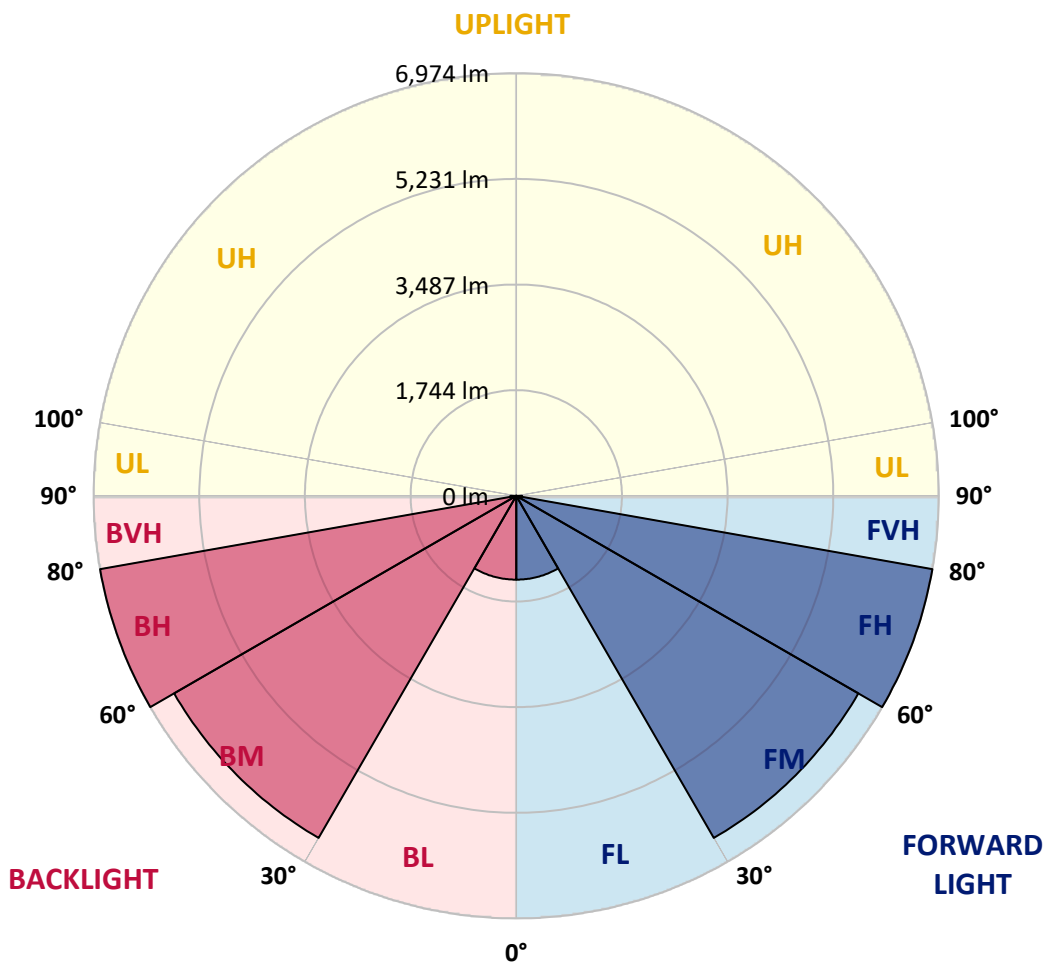
REPORT NUMBER: P316619
 CATALOG NUMBER: GLEON-SA5D-827-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1383.7	4.6			
FM (30°-60°)	6519.5	21.8			
FH (60°-80°)	6974.0	23.3			G3/7500
FVH (80°-90°)	96.8	0.3			G1/100
BL (0°-30°)	1383.7	4.6	B3/2500		
BM (30°-60°)	6519.5	21.8	B4/8500		
BH (60°-80°)	6974.0	23.3	B5		G3/7500
BVH (80°-90°)	96.8	0.3			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: P316619

CATALOG NUMBER: GLEON-SA5D-827-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3270.8	3270.8	3270.8	3270.8	3270.8	3270.8	3270.8	3270.8	3270.8	3270.8	3270.8
2.5°	3265.8	3262.9	3269.8	3268.8	3262.9	3263.8	3263.8	3266.8	3266.8	3264.8	3264.8
5°	3253.9	3252.0	3259.9	3259.9	3253.9	3255.9	3257.9	3260.9	3259.9	3257.9	3256.9
7.5°	3239.1	3238.1	3246.0	3246.0	3242.0	3244.0	3242.0	3243.0	3241.1	3239.1	3236.1
10°	3214.3	3216.3	3223.2	3225.2	3225.2	3226.2	3224.2	3219.2	3216.3	3213.3	3210.3
12.5°	3191.5	3190.5	3200.4	3205.4	3213.3	3222.2	3216.3	3202.4	3196.5	3190.5	3188.5
15°	3176.6	3177.6	3187.5	3196.5	3210.3	3229.2	3222.2	3200.4	3188.5	3181.6	3179.6
17.5°	3173.7	3175.6	3188.5	3204.4	3219.2	3240.1	3236.1	3214.3	3194.5	3181.6	3178.6
20°	3180.6	3181.6	3201.4	3224.2	3250.0	3269.8	3260.9	3237.1	3210.3	3190.5	3185.5
22.5°	3193.5	3197.4	3222.2	3257.9	3297.5	3324.3	3313.4	3272.8	3231.1	3206.4	3199.4
25°	3234.1	3235.1	3268.8	3317.4	3364.9	3395.7	3382.8	3325.3	3271.8	3244.0	3235.1
27.5°	3318.4	3321.3	3355.0	3411.5	3452.2	3472.0	3464.1	3417.5	3371.9	3342.2	3345.1
30°	3440.3	3444.2	3481.9	3544.3	3569.1	3574.1	3572.1	3550.3	3508.7	3469.0	3472.0
32.5°	3588.9	3590.9	3641.5	3698.0	3717.8	3721.8	3717.8	3698.0	3648.4	3594.9	3597.9
35°	3780.2	3786.2	3834.8	3889.3	3905.1	3913.1	3906.1	3880.3	3828.8	3776.3	3774.3
37.5°	4016.1	4017.1	4067.7	4124.2	4144.0	4146.0	4138.0	4121.2	4056.8	4009.2	4006.2
40°	4289.7	4293.7	4353.1	4413.6	4421.5	4412.6	4423.5	4413.6	4347.2	4292.7	4301.6
42.5°	4622.7	4631.6	4703.0	4762.5	4739.7	4734.7	4741.7	4744.6	4691.1	4624.7	4618.7
45°	5010.3	5018.2	5107.4	5155.0	5140.1	5107.4	5121.3	5145.0	5070.7	4988.4	4996.4
47.5°	5452.3	5472.1	5567.3	5611.9	5575.2	5530.6	5557.4	5593.0	5505.8	5403.7	5398.8
50°	5943.9	5968.7	6095.6	6158.0	6121.3	6039.1	6083.7	6107.5	5981.6	5849.8	5838.9
52.5°	6468.2	6493.0	6652.6	6781.4	6757.6	6629.8	6692.2	6667.5	6522.7	6345.3	6331.5
55°	7061.9	7071.8	7244.3	7452.4	7476.2	7382.1	7378.1	7337.5	7123.4	6918.2	6908.3
57.5°	7672.5	7679.4	7902.4	8148.2	8260.2	8260.2	8149.2	8063.0	7778.5	7540.7	7515.9
60°	8331.6	8356.4	8603.2	8937.2	9198.8	9276.2	9079.9	8845.0	8535.8	8245.4	8216.6
62.5°	8918.3	8947.1	9324.7	9822.3	10242.5	10524.0	10044.3	9661.7	9098.7	8632.9	8578.4
65°	8992.7	9070.0	9620.1	10521.0	11461.6	12023.6	11103.8	10161.2	9135.4	8488.2	8432.7
67.5°	8212.7	8343.5	9086.8	10489.3	12433.0	13639.2	11780.8	9875.8	8477.3	7761.7	7700.2
70°	6310.6	6500.9	7358.3	9175.1	12265.5	14159.5	11356.6	8645.8	7067.9	6297.8	6211.5
72.5°	3462.1	3540.4	4311.5	6282.9	9833.2	12032.5	9472.4	6392.9	4687.1	3813.9	3669.2
75°	1098.2	1125.9	1518.4	2571.0	5562.3	7969.8	6017.3	3138.0	1727.6	1273.6	1258.8
77.5°	487.6	490.6	549.1	750.3	1915.9	4037.9	2301.4	854.4	588.7	514.4	531.3
80°	308.2	308.2	340.0	371.7	521.3	1172.5	622.4	406.4	346.9	322.1	329.1
82.5°	147.7	163.5	221.0	237.9	286.4	394.5	319.1	265.6	231.9	172.5	160.6
85°	97.1	81.3	139.8	157.6	166.5	189.3	185.3	175.4	151.6	86.2	96.1
87.5°	43.6	41.6	72.4	66.4	62.4	47.6	71.4	88.2	85.2	42.6	42.6
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)