

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: STREETWORKS

Report Number: P316302

Luminaire Tested: **GAN-SA8D-827-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48150 lumens
Efficiency: N/A
Efficacy: 94.2 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): 511
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

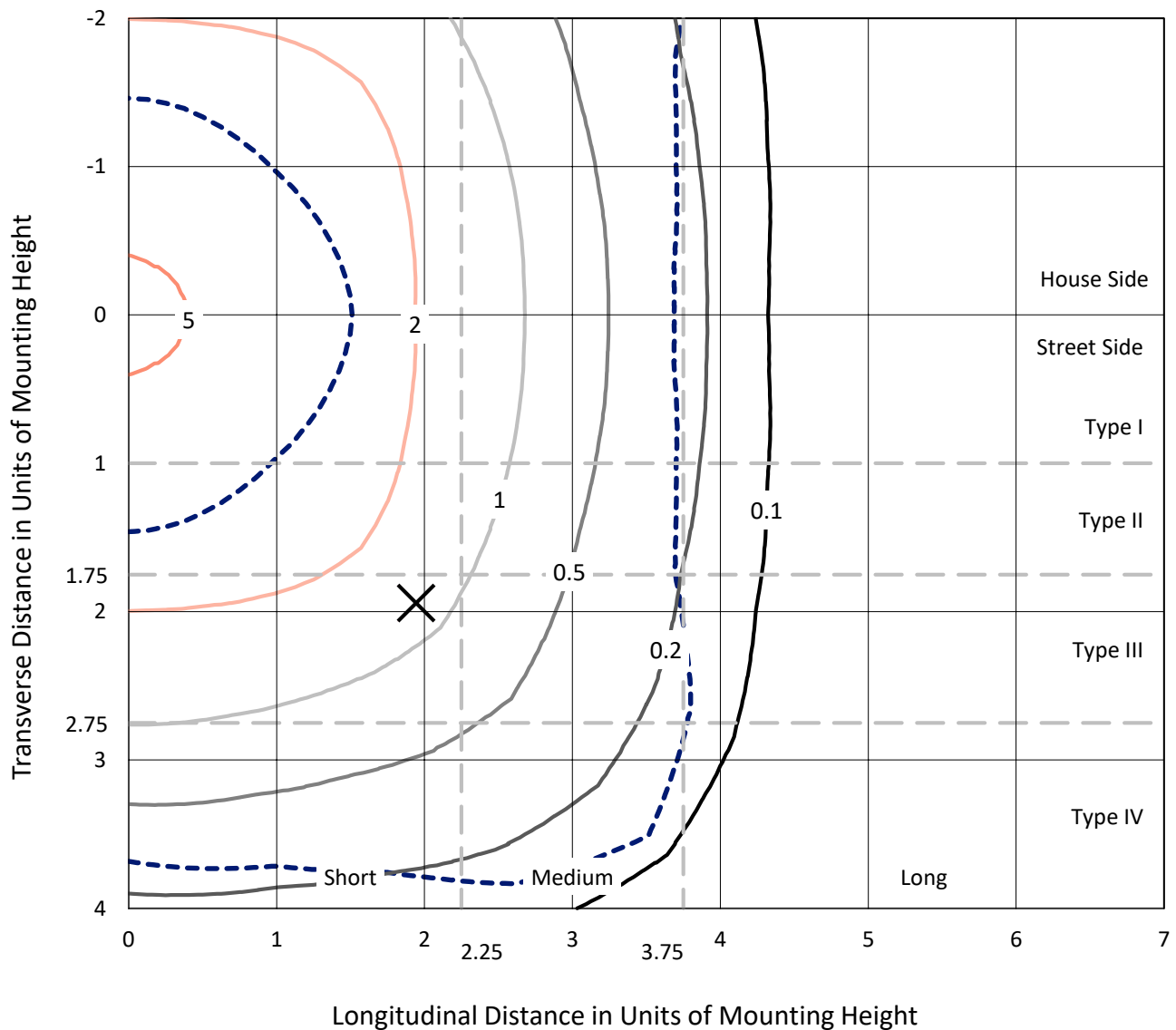


REPORT NUMBER: P316302

CATALOG NUMBER: GAN-SA8D-827-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

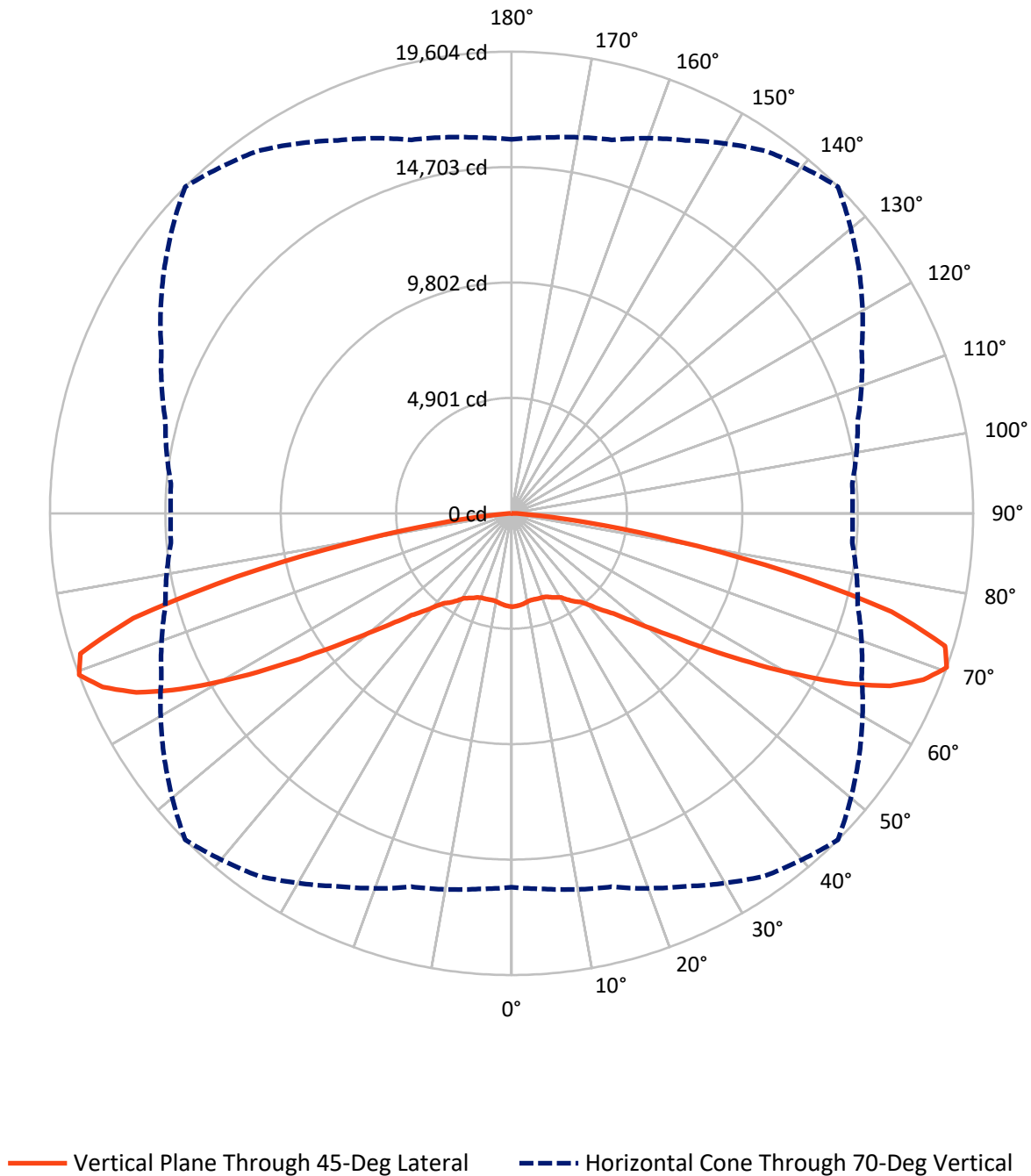
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

REPORT NUMBER: P316302
CATALOG NUMBER: GAN-SA8D-827-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P316302

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24075.0	0.0	24075.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24075.0	0.0	24075.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48150.0	0.0	48150.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.9	0.8
10°-20°	1080.4	2.2
20°-30°	1842.0	3.8
30°-40°	2878.2	6.0
40°-50°	4877.8	10.1
50°-60°	8895.1	18.5
60°-70°	15313.5	31.8
70°-80°	12003.3	24.9
80°-90°	890.0	1.8
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°	48150.0	100.0
0°-180°	48150.0	100.0

Coefficient of Utilization



REPORT NUMBER: P316302

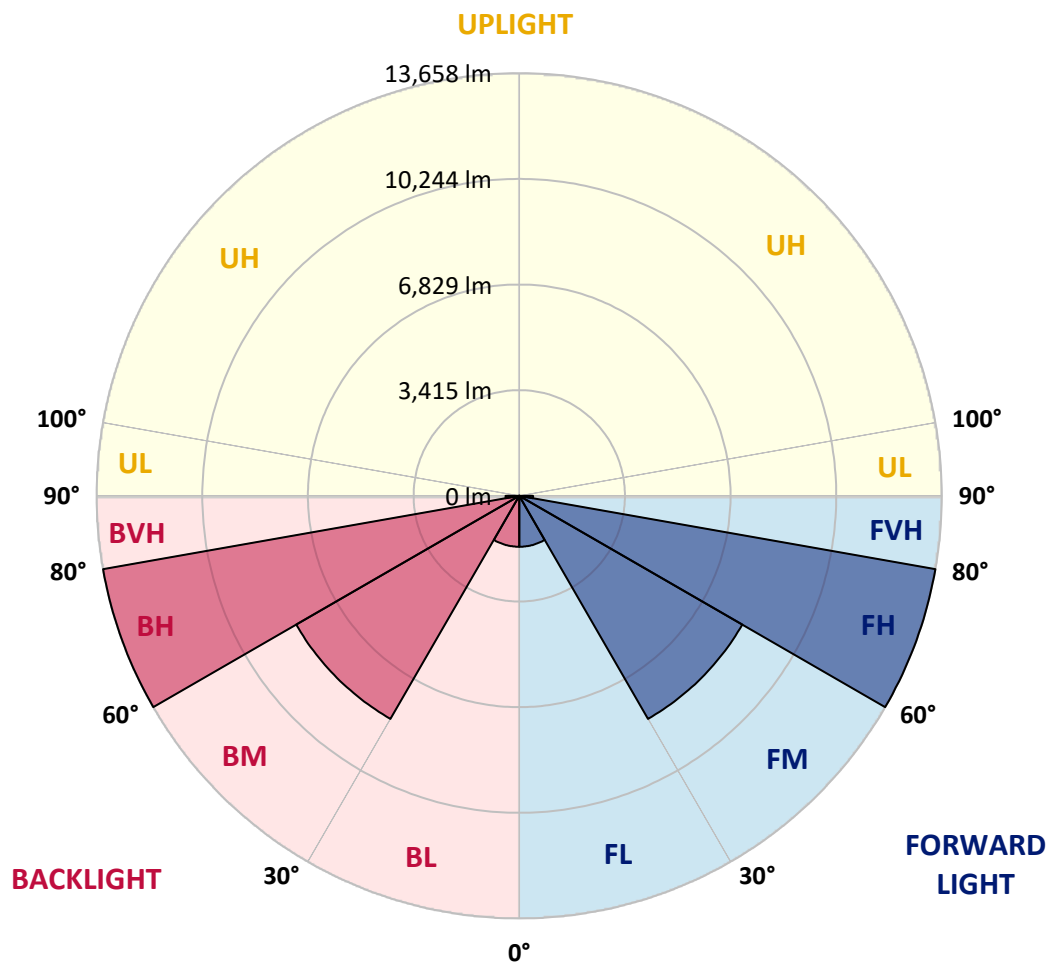
CATALOG NUMBER: GAN-SA8D-827-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1646.1	3.4			
FM	(30°-60°)	8325.5	17.3			
FH	(60°-80°)	13658.4	28.4			G5
FVH	(80°-90°)	445.0	0.9			G3/500
BL	(0°-30°)	1646.1	3.4	B3/2500		
BM	(30°-60°)	8325.5	17.3	B4/8500		
BH	(60°-80°)	13658.4	28.4	B5		G5
BVH	(80°-90°)	445.0	0.9			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 V Short





REPORT NUMBER: P316302

CATALOG NUMBER: GAN-SA8D-827-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3962.8	3962.8	3962.8	3962.8	3962.8	3962.8	3962.8	3962.8	3962.8	3962.8	3962.8
2.5°	3945.2	3950.0	3945.2	3948.4	3940.5	3943.6	3943.6	3943.6	3942.0	3943.6	3940.5
5°	3910.2	3913.4	3907.0	3910.2	3905.4	3910.2	3911.8	3910.2	3907.0	3908.6	3902.2
7.5°	3857.6	3860.8	3856.0	3860.8	3854.4	3862.4	3860.8	3856.0	3851.3	3851.3	3844.9
10°	3829.0	3830.6	3817.8	3813.0	3798.7	3801.9	3806.7	3811.4	3816.2	3825.8	3824.2
12.5°	3830.6	3830.6	3811.4	3790.7	3770.0	3774.8	3782.8	3800.3	3819.4	3836.9	3838.5
15°	3846.5	3844.9	3816.2	3782.8	3768.4	3782.8	3787.5	3798.7	3829.0	3859.2	3860.8
17.5°	3857.6	3857.6	3813.0	3774.8	3773.2	3795.5	3793.9	3798.7	3832.1	3876.7	3878.3
20°	3878.3	3878.3	3821.0	3779.6	3779.6	3803.5	3805.1	3813.0	3846.5	3895.9	3903.8
22.5°	3924.5	3926.1	3865.6	3832.1	3835.3	3849.7	3854.4	3867.2	3897.4	3951.6	3961.2
25°	3989.8	3993.0	3930.9	3911.8	3922.9	3950.0	3946.8	3956.4	3989.8	4042.4	4051.9
27.5°	4080.6	4072.7	4015.3	4007.3	4018.5	4037.6	4036.0	4037.6	4064.7	4112.5	4123.6
30°	4198.5	4195.3	4153.9	4158.7	4153.9	4147.5	4149.1	4161.8	4176.2	4214.4	4225.6
32.5°	4313.2	4316.3	4290.9	4314.7	4349.8	4373.7	4337.0	4302.0	4286.1	4306.8	4316.3
35°	4520.2	4528.2	4488.4	4472.4	4520.2	4590.3	4486.8	4429.4	4461.3	4488.4	4496.3
37.5°	4872.2	4877.0	4810.1	4746.4	4711.3	4778.2	4674.7	4679.5	4791.0	4841.9	4840.4
40°	5273.6	5275.2	5230.6	5174.8	5114.3	5130.2	5088.8	5101.6	5174.8	5221.0	5233.8
42.5°	5751.4	5746.6	5676.5	5596.9	5579.4	5595.3	5525.2	5515.7	5600.1	5682.9	5684.5
45°	6371.0	6359.8	6269.0	6181.4	6097.0	6062.0	6044.5	6090.7	6206.9	6283.4	6285.0
47.5°	7038.3	7008.1	6960.3	6890.2	6817.0	6781.9	6753.2	6775.5	6860.0	6890.2	6893.4
50°	7724.8	7731.2	7740.7	7713.7	7686.6	7675.4	7600.6	7557.6	7583.1	7527.3	7519.4
52.5°	8538.7	8551.5	8643.8	8721.9	8768.1	8792.0	8650.2	8502.1	8419.3	8310.9	8279.1
55°	9499.1	9519.8	9655.2	9871.8	10094.8	10212.7	9956.3	9679.1	9422.7	9220.4	9155.1
57.5°	10569.5	10606.1	10792.4	11208.2	11665.3	11944.0	11510.8	11007.5	10512.1	10220.6	10169.7
60°	11824.5	11859.6	12117.6	12713.3	13453.9	13872.8	13216.6	12393.2	11776.8	11498.0	11404.1
62.5°	13318.5	13321.7	13638.7	14334.7	15312.7	15895.6	15006.9	13906.3	13270.8	12934.7	12843.9
65°	14925.6	14933.6	15261.7	16013.5	17024.9	17658.8	16655.3	15508.6	14731.3	14236.0	14165.9
67.5°	16061.2	16094.7	16440.3	17345.0	18291.1	18862.9	17824.4	16527.9	15629.6	15038.7	14979.8
70°	15879.7	16010.3	16416.4	17472.4	18788.0	19603.5	18014.0	16406.9	15221.9	14524.2	14474.9
72.5°	13848.9	14099.0	14640.5	16026.2	18130.2	19253.1	16980.3	14694.7	13353.6	12759.5	12670.3
75°	9430.6	9836.8	10653.9	12652.8	15489.5	16669.7	14294.9	11716.2	10454.8	9632.9	9572.4
77.5°	4204.8	4297.2	5332.5	7634.0	10688.9	11971.1	10386.3	7664.3	5753.0	4588.7	4343.4
80°	1172.3	1186.6	1583.2	2843.1	5350.0	7033.6	5743.4	2986.4	1678.8	1183.4	1114.9
82.5°	372.7	404.6	493.8	737.4	1798.2	3209.4	1846.0	796.4	567.0	452.3	407.7
85°	181.6	180.0	250.1	299.4	458.7	710.4	489.0	369.5	323.3	215.0	194.3
87.5°	76.5	78.0	116.3	105.1	133.8	114.7	157.7	165.6	173.6	95.6	82.8
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)