

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: P316979

Luminaire Tested: **GAN-SA5D-830-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316979
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: STREETWORKS
Catalog Number: GAN-SA5D-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31788 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

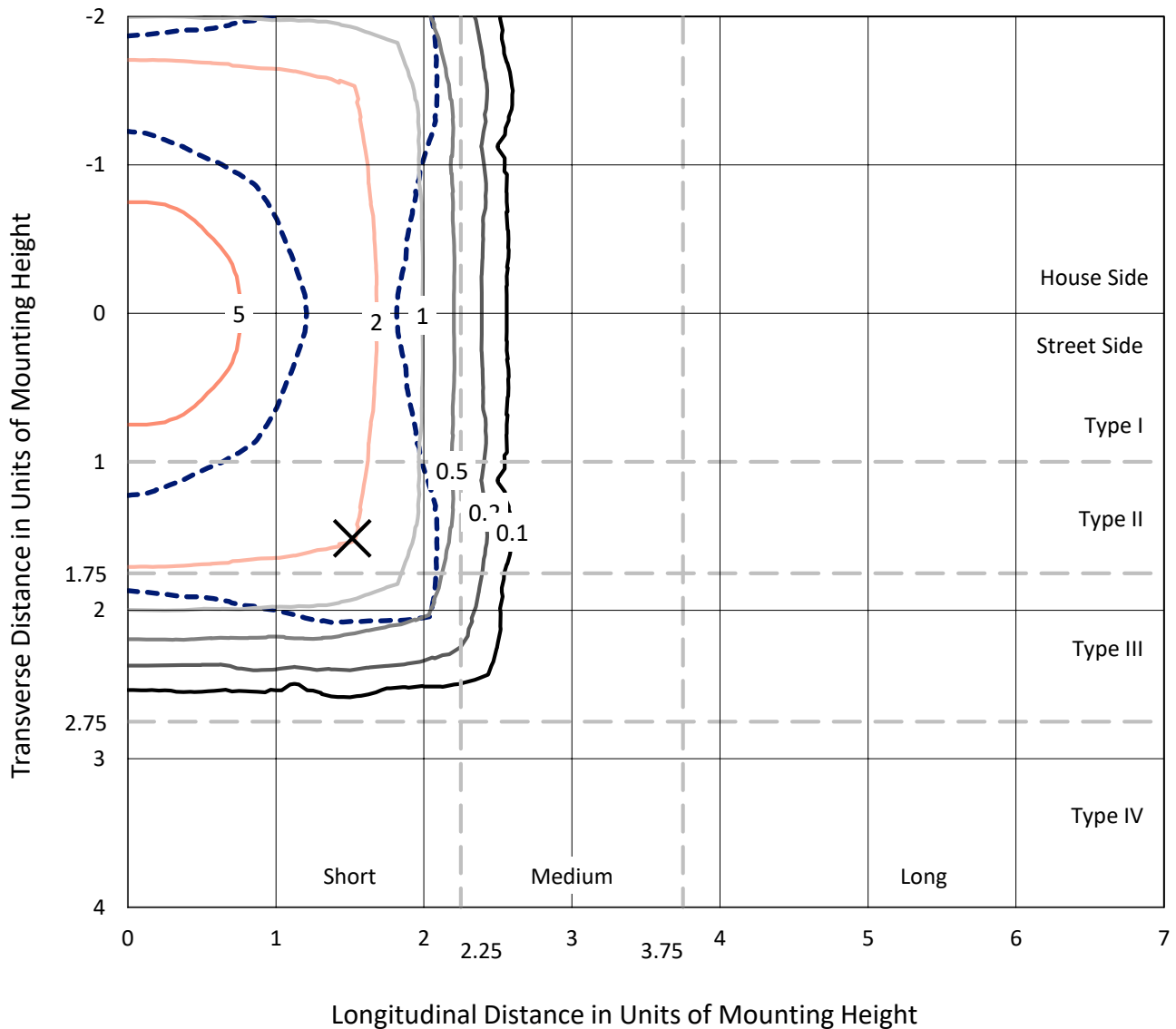
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P316979
 CATALOG NUMBER: GAN-SA5D-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

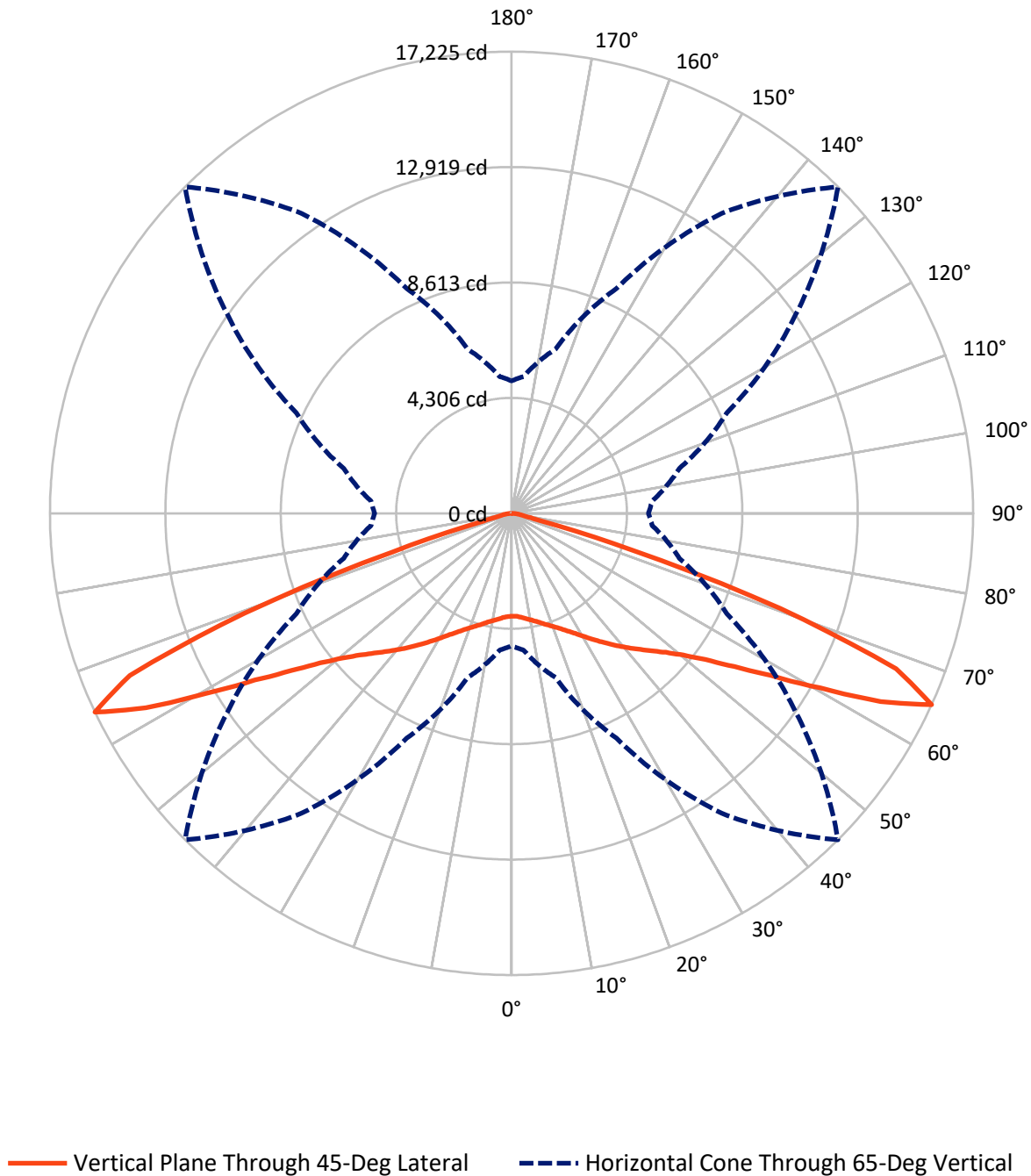
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

REPORT NUMBER: P316979
CATALOG NUMBER: GAN-SA5D-830-U-5NQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15894.0	0.0	15894.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15894.0	0.0	15894.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31788.0	0.0	31788.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.6	1.2
10°-20°	1210.6	3.8
20°-30°	2271.3	7.1
30°-40°	3756.3	11.8
40°-50°	5818.1	18.3
50°-60°	8923.3	28.1
60°-70°	8326.4	26.2
70°-80°	969.1	3.0
80°-90°	136.2	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°	31788.0	100.0
0°-180°	31788.0	100.0

Coefficient of Utilization



REPORT NUMBER: P316979

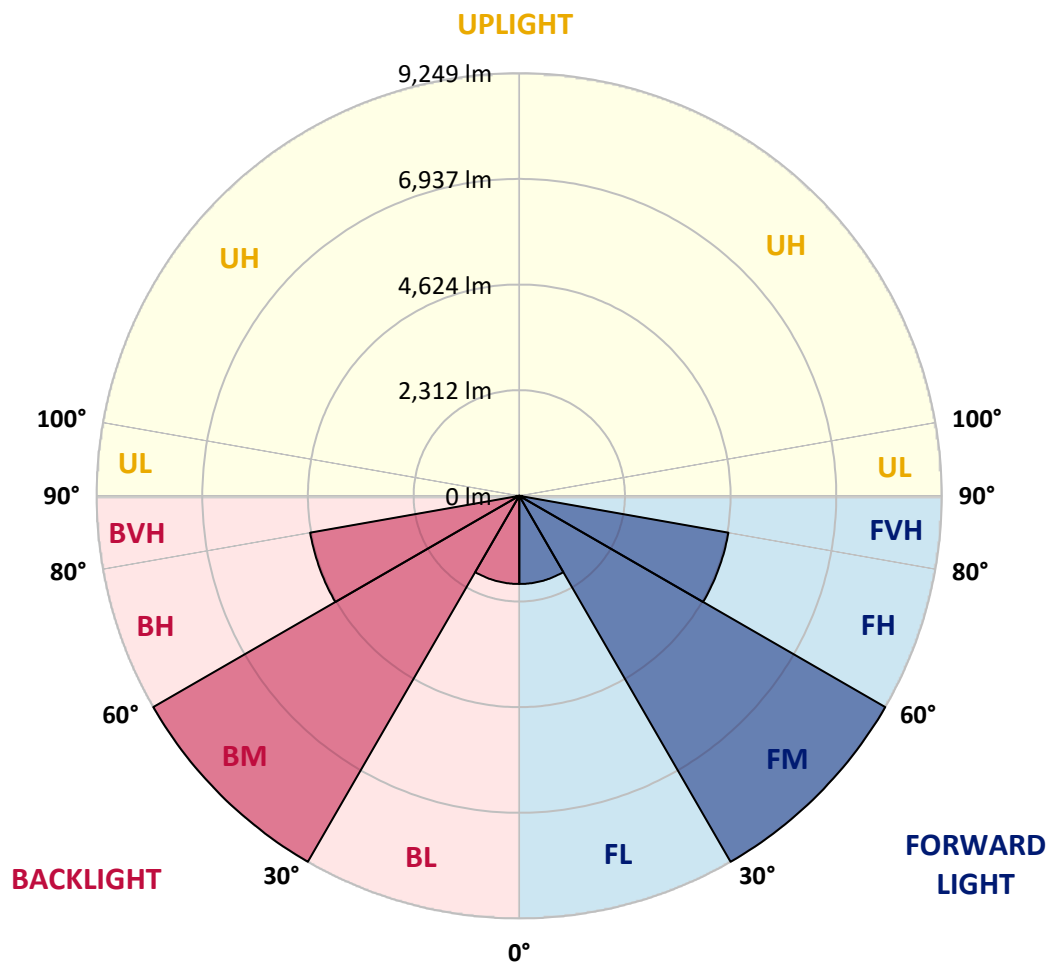
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1929.3	6.1			
FM	(30°-60°)	9248.9	29.1			
FH	(60°-80°)	4647.8	14.6			G2/5000
FVH	(80°-90°)	68.1	0.2			G1/100
BL	(0°-30°)	1929.3	6.1	B3/2500		
BM	(30°-60°)	9248.9	29.1	B5		
BH	(60°-80°)	4647.8	14.6	B4/5000		G2/5000
BVH	(80°-90°)	68.1	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-G2

Type V Short





REPORT NUMBER: P316979

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8
2.5°	3851.5	3849.4	3851.5	3852.5	3846.2	3849.4	3848.3	3853.6	3855.7	3853.6	3853.6
5°	3895.8	3892.6	3896.8	3902.1	3893.7	3895.8	3892.6	3898.9	3901.1	3896.8	3900.0
7.5°	3957.0	3958.0	3962.3	3971.8	3966.5	3970.7	3964.4	3965.4	3964.4	3958.0	3959.1
10°	4023.5	4024.5	4031.9	4044.6	4046.7	4046.7	4042.5	4039.3	4035.1	4030.8	4031.9
12.5°	4103.7	4108.9	4114.2	4130.0	4130.0	4138.5	4136.4	4127.9	4120.5	4114.2	4114.2
15°	4212.3	4211.3	4217.6	4233.4	4240.8	4254.6	4254.6	4242.9	4233.4	4227.1	4225.0
17.5°	4326.3	4329.5	4333.7	4352.7	4364.3	4380.1	4382.2	4372.7	4366.4	4358.0	4352.7
20°	4459.3	4464.5	4481.4	4488.8	4499.4	4514.1	4519.4	4517.3	4511.0	4506.7	4507.8
22.5°	4614.4	4628.1	4638.6	4649.2	4661.9	4672.4	4677.7	4685.1	4678.7	4675.6	4673.5
25°	4802.2	4811.7	4832.8	4851.8	4860.2	4863.4	4869.7	4880.3	4879.2	4871.8	4871.8
27.5°	5015.3	5033.3	5059.7	5087.1	5087.1	5076.5	5097.7	5115.6	5109.3	5099.8	5087.1
30°	5273.9	5290.8	5321.4	5359.3	5340.3	5333.0	5361.5	5394.2	5384.7	5368.8	5366.7
32.5°	5552.4	5568.3	5608.4	5649.5	5625.3	5614.7	5645.3	5692.8	5675.9	5644.2	5625.3
35°	5854.2	5870.1	5927.0	5976.6	5935.5	5917.5	5942.9	5994.6	5965.0	5905.9	5891.2
37.5°	6182.4	6190.8	6264.7	6315.3	6286.9	6239.4	6271.0	6309.0	6283.7	6211.9	6183.4
40°	6523.2	6553.8	6639.3	6698.4	6648.8	6573.9	6626.6	6679.4	6641.4	6549.6	6501.1
42.5°	6921.0	6944.2	7058.2	7111.0	7030.8	6925.3	6997.0	7068.8	7030.8	6942.1	6899.9
45°	7334.7	7370.5	7506.7	7559.4	7443.4	7309.3	7396.9	7522.5	7519.3	7391.6	7347.3
47.5°	7785.2	7821.1	7983.6	8053.3	7927.7	7748.3	7871.8	8049.0	8036.4	7896.0	7860.2
50°	8305.4	8343.4	8546.0	8633.6	8516.5	8307.6	8493.3	8649.4	8626.2	8453.2	8456.3
52.5°	8958.6	8956.5	9208.7	9360.6	9240.4	9055.7	9226.6	9378.6	9282.6	9043.0	9035.6
55°	9530.5	9565.4	9877.7	10165.8	10158.4	10087.7	10156.3	10162.6	9888.2	9569.6	9530.5
57.5°	9906.2	9972.7	10412.7	10933.9	11324.4	11418.3	11285.3	10882.2	10239.6	9730.0	9667.7
60°	9675.1	9776.4	10467.5	11530.1	12680.3	13232.2	12481.9	11231.5	9966.3	9256.2	9171.8
62.5°	8115.5	8286.5	9298.4	11242.1	13847.3	15460.7	13349.3	10671.2	8879.5	7901.3	7756.7
65°	4942.5	5123.0	6342.8	9253.0	13658.5	17225.0	12953.6	8857.3	6481.0	5264.4	5108.2
67.5°	1647.2	1699.9	2418.5	5114.5	10734.5	15476.6	10752.4	5302.4	2820.5	1869.8	1814.9
70°	644.7	650.0	767.1	1482.6	5069.2	10630.0	5593.6	1508.9	801.9	634.2	647.9
72.5°	473.8	475.9	508.6	619.4	1321.1	4683.0	1368.6	622.6	494.9	444.2	444.2
75°	380.9	380.9	404.1	451.6	592.0	1074.2	600.4	446.3	387.3	354.5	350.3
77.5°	300.7	307.1	325.0	355.6	401.0	517.0	415.7	353.5	312.3	281.7	275.4
80°	223.7	230.0	259.6	274.4	288.1	358.8	307.1	276.5	246.9	211.0	204.7
82.5°	146.7	153.0	189.9	198.4	195.2	234.3	206.8	203.7	181.5	136.1	129.8
85°	96.0	98.1	126.6	131.9	121.3	106.6	131.9	139.3	126.6	88.6	85.5
87.5°	45.4	45.4	64.4	60.1	54.9	44.3	60.1	70.7	71.8	43.3	42.2
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)