

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: P316641

Luminaire Tested: **GAN-SA7B-830-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316641
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: STREETWORKS
Catalog Number: GAN-SA7B-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33742 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

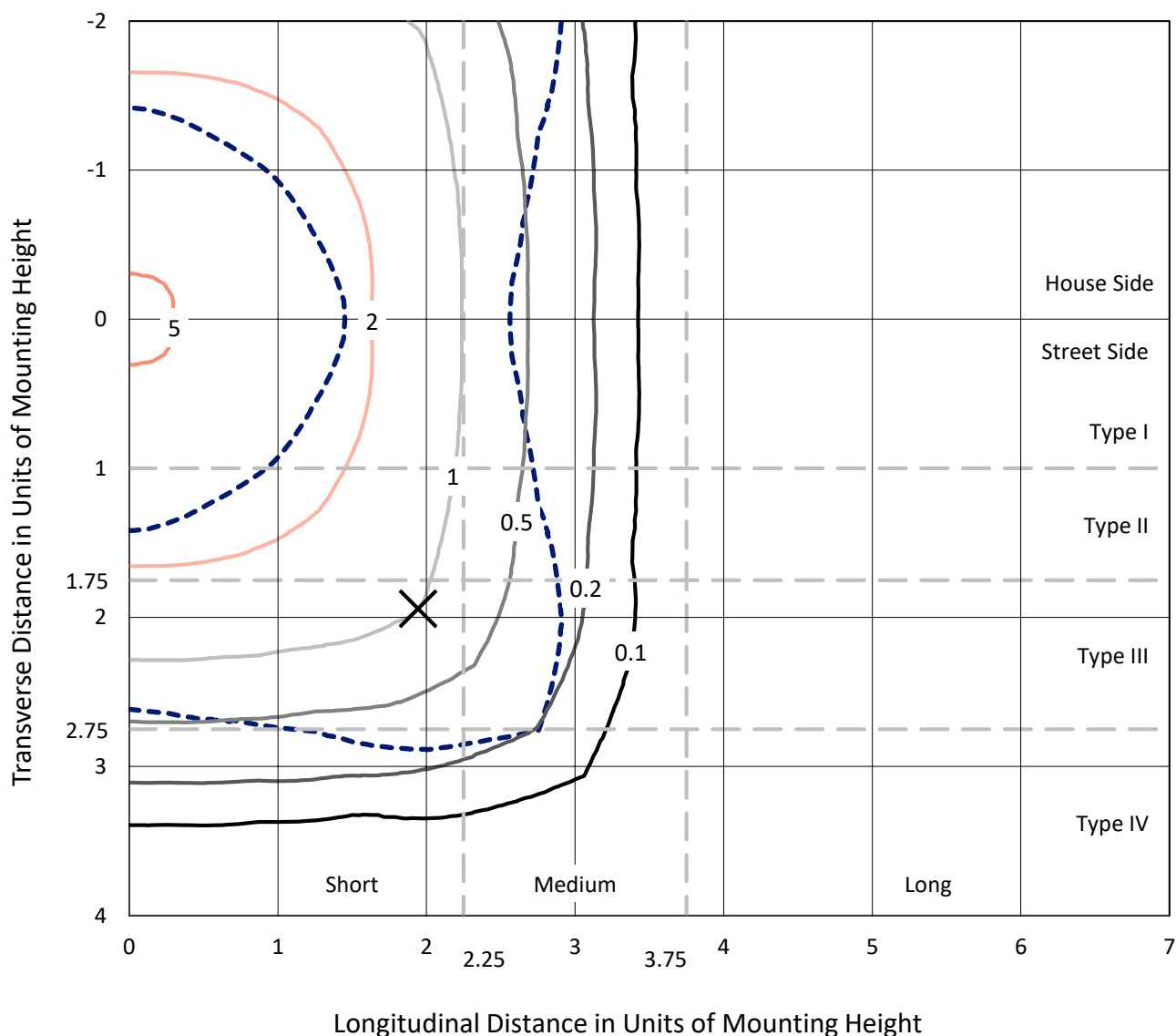
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

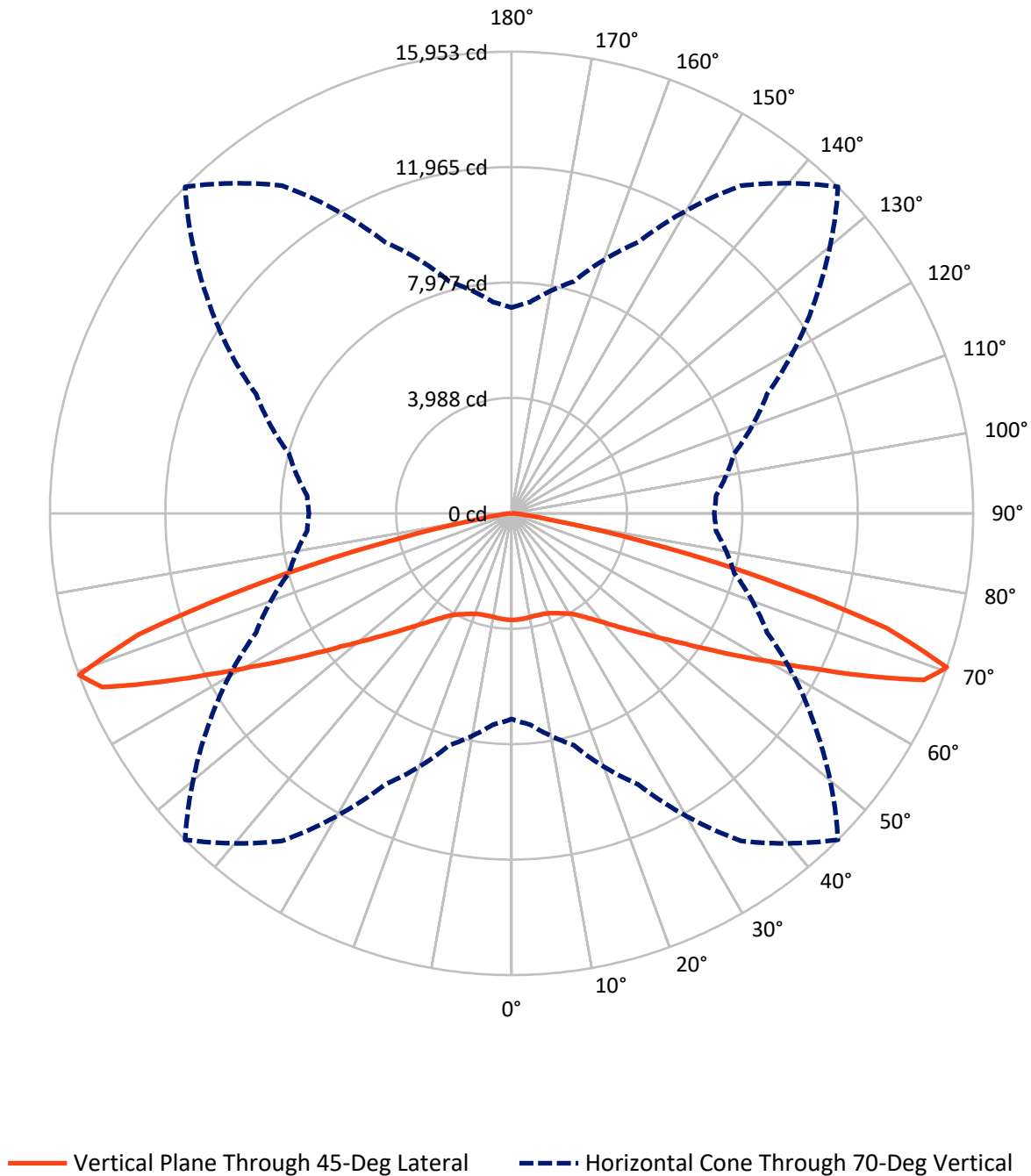
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16871.0	0.0	16871.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16871.0	0.0	16871.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33742.0	0.0	33742.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.0	1.0
10°-20°	1024.6	3.0
20°-30°	1744.3	5.2
30°-40°	2766.4	8.2
40°-50°	4501.8	13.3
50°-60°	7422.6	22.0
60°-70°	10896.6	32.3
70°-80°	4818.5	14.3
80°-90°	218.2	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°	33742.0	100.0
0°-180°	33742.0	100.0

Coefficient of Utilization



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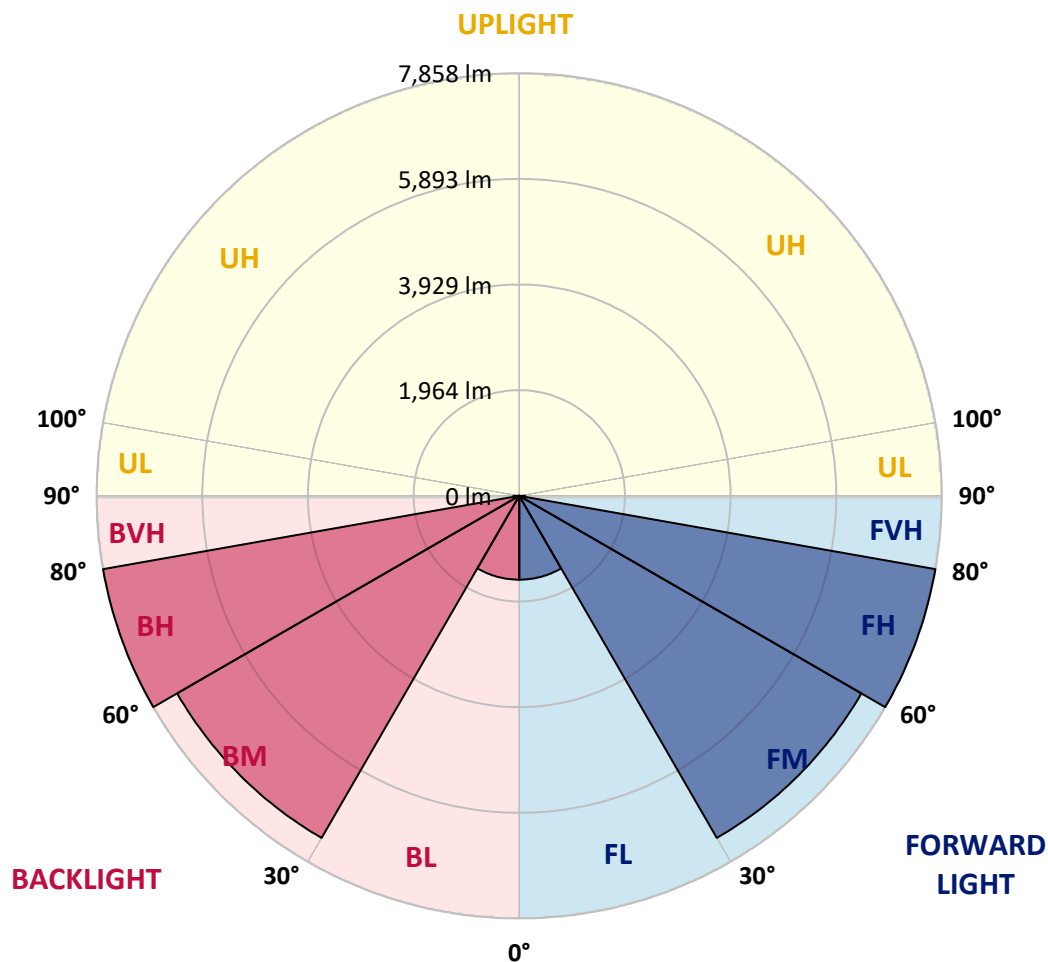
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1559.0	4.6			
FM	(30°-60°)	7345.4	21.8			
FH	(60°-80°)	7857.5	23.3			G4/12000
FVH	(80°-90°)	109.1	0.3			G2/225
BL	(0°-30°)	1559.0	4.6	B3/2500		
BM	(30°-60°)	7345.4	21.8	B4/8500		
BH	(60°-80°)	7857.5	23.3	B5		G4/12000
BVH	(80°-90°)	109.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3685.2	3685.2	3685.2	3685.2	3685.2	3685.2	3685.2	3685.2	3685.2	3685.2	3685.2
2.5°	3679.6	3676.2	3684.0	3682.9	3676.2	3677.3	3677.3	3680.7	3680.7	3678.5	3678.5
5°	3666.2	3663.9	3672.9	3672.9	3666.2	3668.4	3670.6	3674.0	3672.9	3670.6	3669.5
7.5°	3649.4	3648.3	3657.2	3657.2	3652.8	3655.0	3652.8	3653.9	3651.7	3649.4	3646.1
10°	3621.5	3623.7	3631.5	3633.8	3633.8	3634.9	3632.7	3627.1	3623.7	3620.4	3617.0
12.5°	3595.8	3594.7	3605.9	3611.4	3620.4	3630.4	3623.7	3608.1	3601.4	3594.7	3592.5
15°	3579.1	3580.2	3591.3	3601.4	3617.0	3638.2	3630.4	3605.9	3592.5	3584.6	3582.4
17.5°	3575.7	3577.9	3592.5	3610.3	3627.1	3650.5	3646.1	3621.5	3599.2	3584.6	3581.3
20°	3583.5	3584.6	3607.0	3632.7	3661.7	3684.0	3674.0	3647.2	3617.0	3594.7	3589.1
22.5°	3598.0	3602.5	3630.4	3670.6	3715.3	3745.5	3733.2	3687.4	3640.5	3612.6	3604.7
25°	3643.8	3644.9	3682.9	3737.6	3791.2	3825.9	3811.3	3746.6	3686.3	3655.0	3644.9
27.5°	3738.8	3742.1	3780.1	3843.7	3889.5	3911.8	3902.9	3850.4	3799.1	3765.6	3768.9
30°	3876.1	3880.6	3923.0	3993.4	4021.3	4026.9	4024.6	4000.1	3953.2	3908.5	3911.8
32.5°	4043.6	4045.8	4102.8	4166.5	4188.8	4193.3	4188.8	4166.5	4110.6	4050.3	4053.7
35°	4259.1	4265.8	4320.6	4382.0	4399.8	4408.8	4401.0	4371.9	4313.9	4254.7	4252.4
37.5°	4524.9	4526.0	4583.0	4646.6	4669.0	4671.2	4662.3	4643.3	4570.7	4517.1	4513.8
40°	4833.1	4837.6	4904.6	4972.7	4981.7	4971.6	4983.9	4972.7	4897.9	4836.5	4846.5
42.5°	5208.3	5218.4	5298.8	5365.8	5340.1	5334.5	5342.4	5345.7	5285.4	5210.6	5203.9
45°	5645.0	5653.9	5754.4	5808.0	5791.3	5754.4	5770.1	5796.9	5713.1	5620.4	5629.3
47.5°	6143.0	6165.4	6272.6	6322.8	6281.5	6231.3	6261.4	6301.6	6203.3	6088.3	6082.7
50°	6696.9	6724.8	6867.8	6938.1	6896.8	6804.1	6854.4	6881.2	6739.4	6590.8	6578.6
52.5°	7287.7	7315.6	7495.4	7640.5	7613.7	7469.7	7540.0	7512.1	7349.1	7149.2	7133.6
55°	7956.6	7967.7	8162.1	8396.6	8423.4	8317.3	8312.8	8267.0	8025.8	7794.7	7783.5
57.5°	8644.5	8652.3	8903.5	9180.5	9306.7	9306.7	9181.6	9084.5	8764.0	8495.9	8468.0
60°	9387.1	9415.0	9693.1	10069.4	10364.2	10451.3	10230.2	9965.5	9617.1	9289.9	9257.5
62.5°	10048.2	10080.6	10506.0	11066.6	11540.1	11857.3	11316.8	10885.7	10251.4	9726.6	9665.1
65°	10131.9	10219.0	10838.8	11853.9	12913.7	13546.8	12510.5	11448.5	10292.7	9563.5	9501.0
67.5°	9253.1	9400.5	10238.0	11818.2	14008.0	15367.1	13273.2	11126.9	9551.2	8745.0	8675.7
70°	7110.1	7324.5	8290.5	10337.4	13819.3	15953.4	12795.3	9741.1	7963.3	7095.6	6998.4
72.5°	3900.7	3988.9	4857.7	7078.8	11078.9	13556.9	10672.4	7202.8	5280.9	4297.1	4134.1
75°	1237.3	1268.6	1710.8	2896.8	6267.0	8979.5	6779.6	3535.5	1946.4	1435.0	1418.2
77.5°	549.4	552.8	618.7	845.4	2158.6	4549.5	2593.0	962.6	663.3	579.6	598.6
80°	347.3	347.3	383.0	418.8	587.4	1321.1	701.3	457.9	390.8	362.9	370.7
82.5°	166.4	184.3	249.0	268.0	322.7	444.5	359.6	299.3	261.3	194.3	180.9
85°	109.4	91.6	157.5	177.6	187.6	213.3	208.8	197.7	170.9	97.2	108.3
87.5°	49.1	46.9	81.5	74.8	70.4	53.6	80.4	99.4	96.0	48.0	48.0
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)