

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: P316659

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316659
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-SA5D-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 32373 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

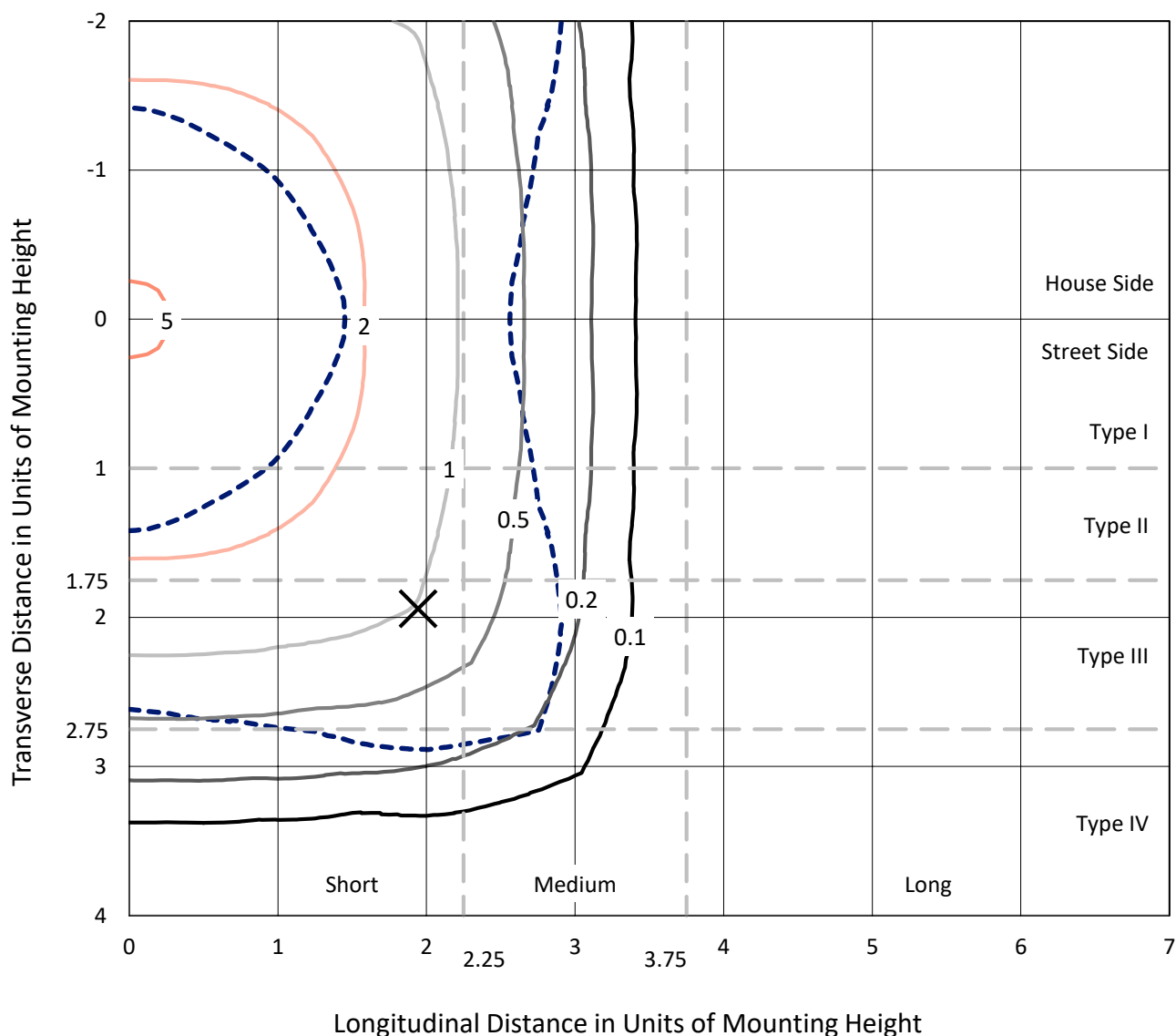
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

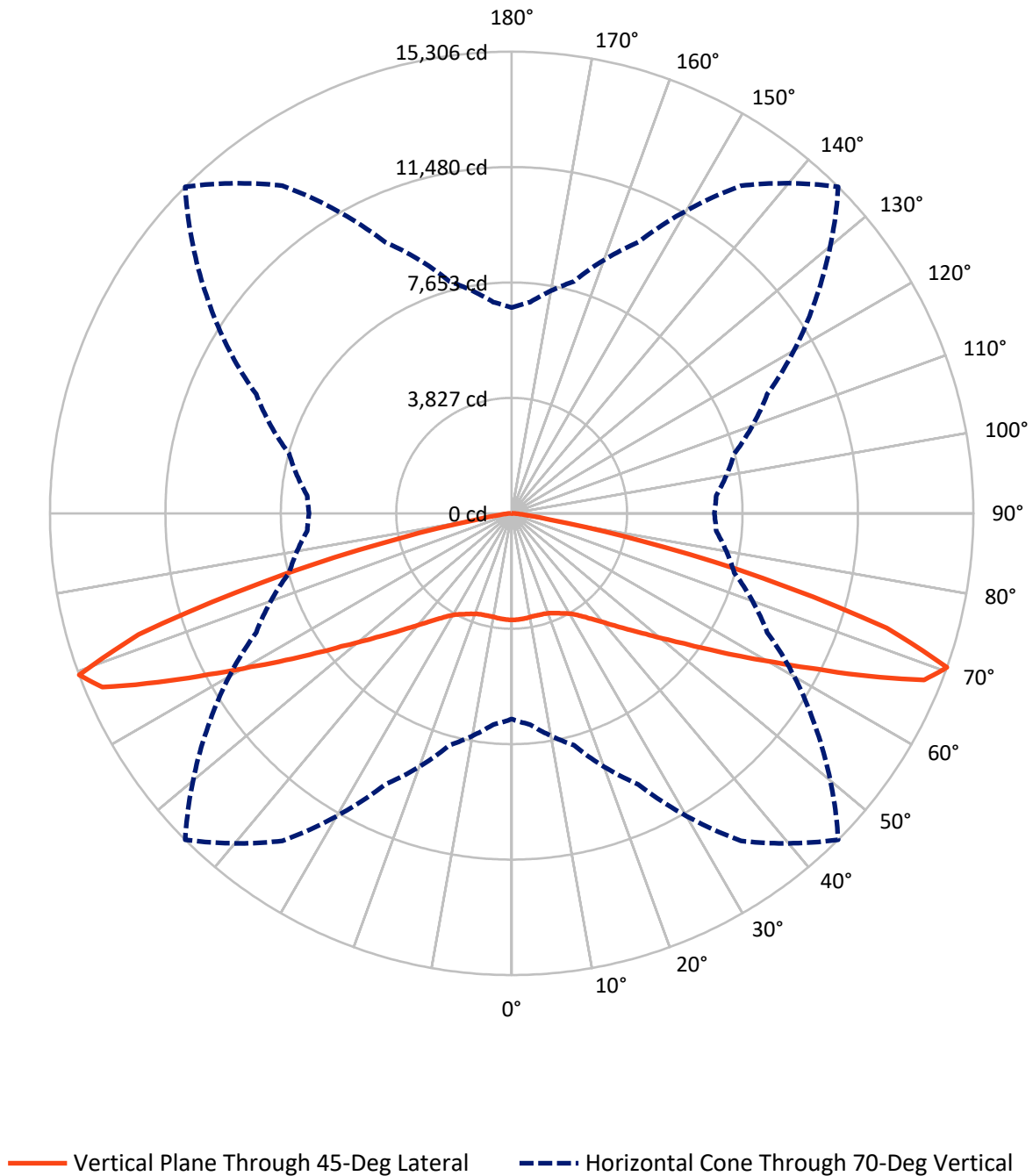
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	16186.5	0.0	16186.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16186.5	0.0	16186.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32373.0	0.0	32373.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.9	1.0
10°-20°	983.1	3.0
20°-30°	1673.5	5.2
30°-40°	2654.1	8.2
40°-50°	4319.1	13.3
50°-60°	7121.5	22.0
60°-70°	10454.5	32.3
70°-80°	4623.0	14.3
80°-90°	209.3	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°	32373.0	100.0
0°-180°	32373.0	100.0

Coefficient of Utilization



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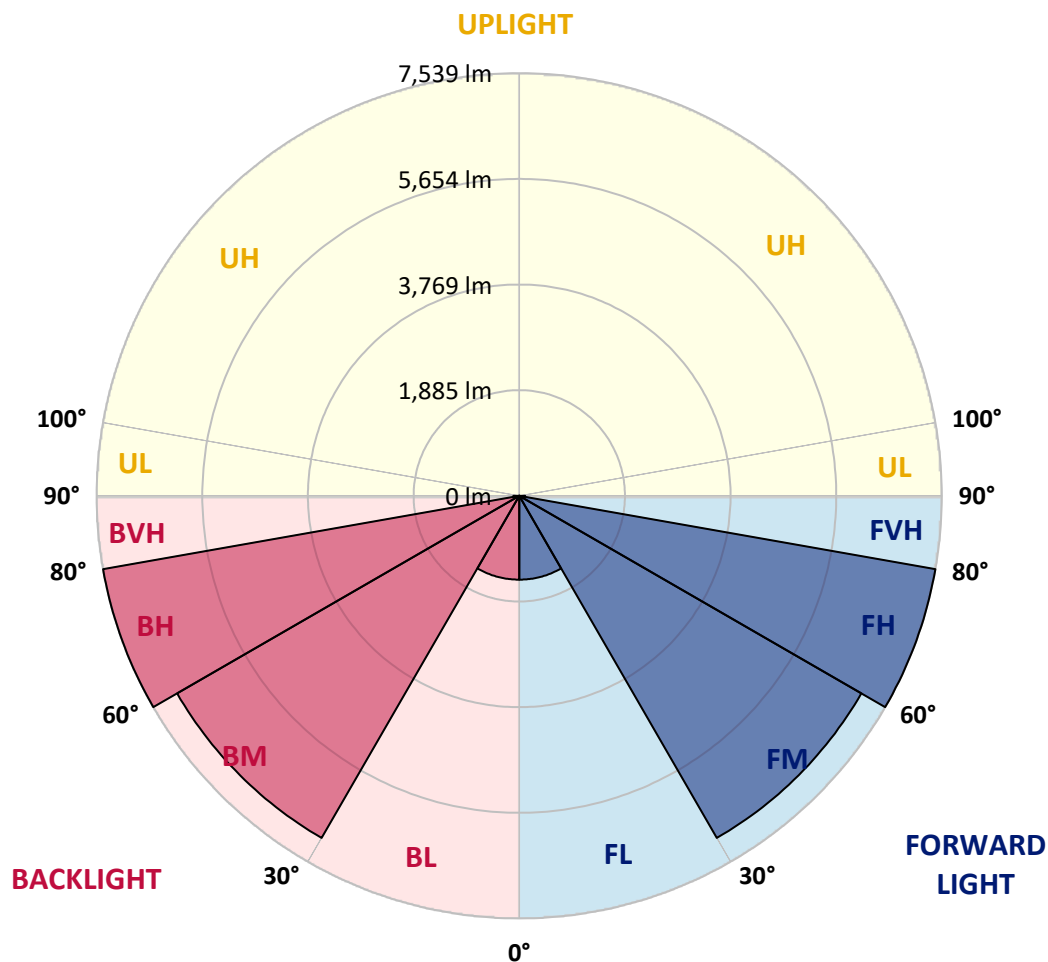
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1495.7	4.6			
FM	(30°-60°)	7047.4	21.8			
FH	(60°-80°)	7538.7	23.3			G4/12000
FVH	(80°-90°)	104.7	0.3			G2/225
BL	(0°-30°)	1495.7	4.6	B3/2500		
BM	(30°-60°)	7047.4	21.8	B4/8500		
BH	(60°-80°)	7538.7	23.3	B5		G4/12000
BVH	(80°-90°)	104.7	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°	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6
2.5°	3530.3	3527.1	3534.6	3533.5	3527.1	3528.1	3528.1	3531.3	3531.3	3529.2	3529.2
5°	3517.4	3515.3	3523.8	3523.8	3517.4	3519.6	3521.7	3524.9	3523.8	3521.7	3520.6
7.5°	3501.4	3500.3	3508.9	3508.9	3504.6	3506.7	3504.6	3505.6	3503.5	3501.4	3498.1
10°	3474.6	3476.7	3484.2	3486.4	3486.4	3487.4	3485.3	3479.9	3476.7	3473.5	3470.3
12.5°	3449.9	3448.9	3459.6	3464.9	3473.5	3483.1	3476.7	3461.7	3455.3	3448.9	3446.7
15°	3433.9	3434.9	3445.6	3455.3	3470.3	3490.6	3483.1	3459.6	3446.7	3439.2	3437.1
17.5°	3430.6	3432.8	3446.7	3463.9	3479.9	3502.4	3498.1	3474.6	3453.1	3439.2	3436.0
20°	3438.1	3439.2	3460.6	3485.3	3513.1	3534.6	3524.9	3499.2	3470.3	3448.9	3443.5
22.5°	3452.1	3456.4	3483.1	3521.7	3564.6	3593.5	3581.7	3537.8	3492.8	3466.0	3458.5
25°	3496.0	3497.1	3533.5	3586.0	3637.4	3670.6	3656.7	3594.6	3536.7	3506.7	3497.1
27.5°	3587.1	3590.3	3626.7	3687.8	3731.7	3753.1	3744.6	3694.2	3644.9	3612.8	3616.0
30°	3718.8	3723.1	3763.8	3831.3	3858.1	3863.5	3861.3	3837.8	3792.8	3749.9	3753.1
32.5°	3879.6	3881.7	3936.3	3997.4	4018.8	4023.1	4018.8	3997.4	3943.8	3886.0	3889.2
35°	4086.3	4092.8	4145.3	4204.2	4221.3	4229.9	4222.4	4194.5	4138.8	4082.1	4079.9
37.5°	4341.3	4342.4	4397.0	4458.1	4479.5	4481.7	4473.1	4454.9	4385.3	4333.8	4330.6
40°	4637.0	4641.3	4705.6	4771.0	4779.5	4769.9	4781.7	4771.0	4699.2	4640.3	4649.9
42.5°	4997.0	5006.7	5083.8	5148.1	5123.5	5118.1	5125.6	5128.8	5071.0	4999.2	4992.7
45°	5416.0	5424.5	5520.9	5572.4	5556.3	5520.9	5535.9	5561.7	5481.3	5392.4	5401.0
47.5°	5893.8	5915.2	6018.1	6066.3	6026.7	5978.4	6007.4	6045.9	5951.7	5841.3	5835.9
50°	6425.2	6452.0	6589.1	6656.6	6617.0	6528.1	6576.3	6602.0	6465.9	6323.4	6311.6
52.5°	6992.0	7018.8	7191.3	7330.6	7304.8	7166.6	7234.1	7207.3	7050.9	6859.1	6844.1
55°	7633.8	7644.5	7830.9	8055.9	8081.6	7979.8	7975.5	7931.6	7700.2	7478.4	7467.7
57.5°	8293.7	8301.2	8542.3	8808.0	8929.1	8929.1	8809.1	8715.9	8408.4	8151.2	8124.5
60°	9006.2	9033.0	9299.8	9660.9	9943.7	10027.3	9815.1	9561.2	9226.9	8913.0	8881.9
62.5°	9640.5	9671.6	10079.8	10617.6	11071.9	11376.2	10857.6	10444.1	9835.5	9331.9	9273.0
65°	9720.9	9804.4	10399.1	11373.0	12389.7	12997.2	12002.9	10984.0	9875.1	9175.5	9115.5
67.5°	8877.7	9019.1	9822.6	11338.7	13439.7	14743.6	12734.7	10675.5	9163.7	8390.2	8323.7
70°	6821.6	7027.3	7954.1	9918.0	13258.6	15306.1	12276.2	9345.9	7640.2	6807.7	6714.5
72.5°	3742.4	3827.1	4660.6	6791.6	10629.4	13006.9	10239.4	6910.6	5066.7	4122.8	3966.3
75°	1187.1	1217.1	1641.4	2779.2	6012.7	8615.2	6504.5	3392.1	1867.5	1376.8	1360.7
77.5°	527.1	530.3	593.6	811.1	2071.0	4364.9	2487.8	923.6	636.4	556.1	574.3
80°	333.2	333.2	367.5	401.8	563.6	1267.5	672.8	439.3	375.0	348.2	355.7
82.5°	159.6	176.8	238.9	257.1	309.6	426.4	345.0	287.1	250.7	186.4	173.6
85°	105.0	87.9	151.1	170.4	180.0	204.6	200.4	189.6	163.9	93.2	103.9
87.5°	47.1	45.0	78.2	71.8	67.5	51.4	77.1	95.4	92.1	46.1	46.1
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)