

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: P318882

Luminaire Tested: **GAN-SA8B-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

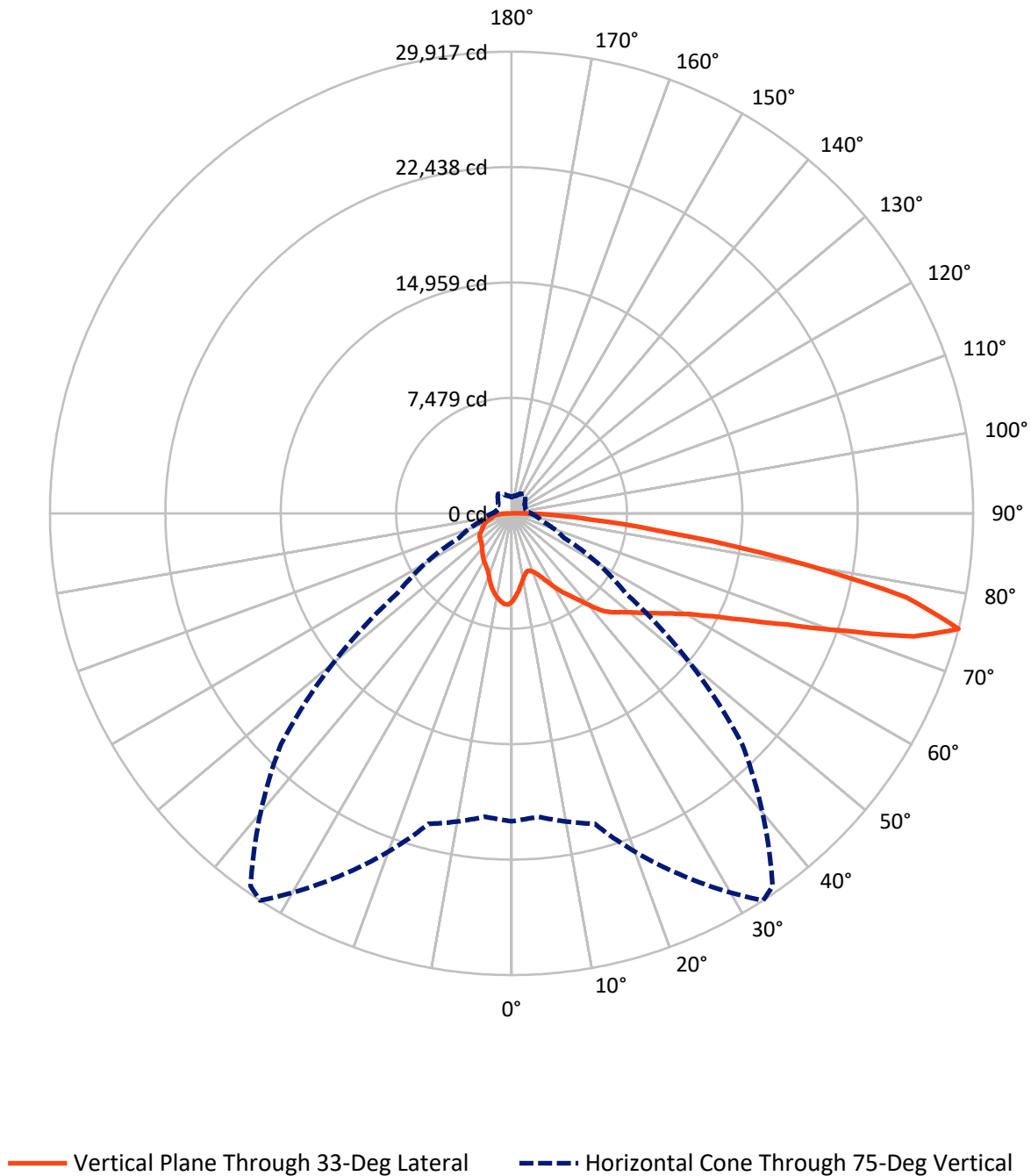
Lumens per Lamp: N/A
Luminaire Lumens: 36612 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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: P318882
CATALOG NUMBER: GAN-SA8B-830-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P318882

CATALOG NUMBER: GAN-SA8B-830-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7861.6	0.0	7861.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	28750.4	0.0	28750.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	36612.0	0.0	36612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.5	1.4
10°-20°	1401.7	3.8
20°-30°	2289.2	6.3
30°-40°	3409.2	9.3
40°-50°	4889.7	13.4
50°-60°	6712.8	18.3
60°-70°	8404.1	23.0
70°-80°	7602.8	20.8
80°-90°	1384.9	3.8
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°	36612.0	100.0
0°-180°	36612.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318882

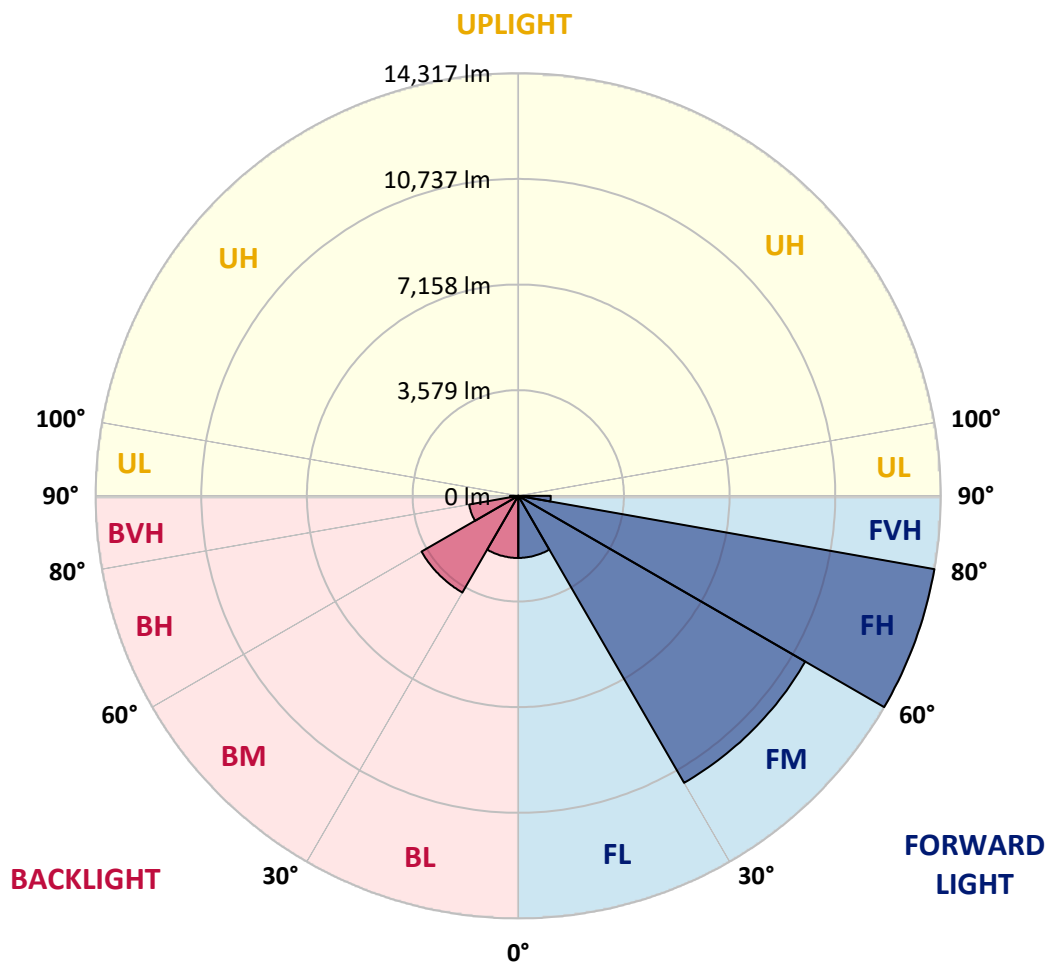
CATALOG NUMBER: GAN-SA8B-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2102.8	5.7			
FM	(30°-60°)	11228.1	30.7			
FH	(60°-80°)	14316.6	39.1			G5
FVH	(80°-90°)	1102.9	3.0			G5
BL	(0°-30°)	2105.7	5.8	B3/2500		
BM	(30°-60°)	3783.5	10.3	B3/5000		
BH	(60°-80°)	1690.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	281.9	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P318882

CATALOG NUMBER: GAN-SA8B-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7
2.5°	5314.2	5293.9	5331.9	5336.9	5369.8	5382.5	5428.0	5498.8	5557.0	5624.0	5684.7
5°	4832.3	4818.4	4871.5	4909.5	4981.6	5011.9	5119.4	5269.9	5404.0	5555.7	5693.6
7.5°	4374.5	4366.9	4426.4	4512.4	4595.8	4637.6	4823.5	5042.3	5266.1	5511.5	5722.7
10°	3988.8	3986.3	4043.2	4127.9	4250.6	4297.4	4537.7	4826.0	5139.6	5477.3	5772.0
12.5°	3772.5	3781.4	3807.9	3878.8	3992.6	4039.4	4306.2	4645.2	5033.4	5465.9	5844.1
15°	3825.6	3839.6	3794.0	3791.5	3872.4	3909.1	4159.5	4516.2	4957.5	5484.9	5949.0
17.5°	4052.0	4054.6	3934.4	3858.5	3907.9	3926.8	4114.0	4442.8	4913.3	5527.9	6080.6
20°	4370.7	4364.4	4151.9	4025.5	4052.0	4057.1	4178.5	4444.1	4909.5	5602.5	6251.3
22.5°	4793.1	4746.3	4460.5	4288.5	4282.2	4274.6	4344.2	4537.7	4965.1	5723.9	6454.9
25°	5344.5	5300.3	4906.9	4671.7	4621.1	4602.2	4612.3	4737.5	5075.1	5854.2	6682.6
27.5°	5957.9	5880.7	5501.3	5168.7	5063.8	5037.2	4976.5	5019.5	5195.3	5979.4	6953.2
30°	6471.3	6429.6	6098.3	5703.7	5579.8	5541.8	5382.5	5335.7	5368.6	6150.1	7294.7
32.5°	6758.4	6730.6	6529.5	6210.8	6095.7	6042.6	5817.5	5723.9	5646.8	6419.5	7757.5
35°	7106.2	7088.5	6967.1	6735.7	6564.9	6509.3	6334.8	6237.4	6038.8	6790.0	8355.7
37.5°	7548.9	7529.9	7532.4	7345.2	7141.6	7089.8	6974.7	6872.3	6547.2	7276.9	9005.8
40°	8049.7	8013.0	7999.1	7990.2	7861.2	7832.1	7771.4	7632.3	7184.6	7858.7	9647.0
42.5°	8803.4	8673.2	8394.9	8499.9	8627.6	8612.4	8661.8	8462.0	7892.8	8546.7	10273.0
45°	9530.6	9316.9	8836.3	8859.1	9138.6	9223.3	9592.6	9450.9	8660.5	9300.4	10920.5
47.5°	9861.9	9700.1	9291.6	9292.8	9569.8	9745.6	10555.0	10453.8	9467.4	10156.6	11710.9
50°	10232.5	10070.6	9703.9	9841.7	10083.3	10270.4	11484.5	11432.7	10235.0	11093.7	12658.1
52.5°	10637.2	10362.8	10130.1	10376.7	10715.6	10933.1	12415.3	12273.7	10939.5	12037.2	13747.0
55°	10642.3	10567.6	10744.7	10925.5	11432.7	11699.5	13390.4	13016.0	11513.6	12964.2	14633.6
57.5°	11248.0	11126.6	11502.2	11585.7	12248.4	12549.4	14360.4	13662.3	12097.9	13674.9	15111.6
60°	12049.8	11946.1	12253.4	12473.5	13257.6	13659.8	15396.2	14326.3	12557.0	14211.2	15088.9
62.5°	13434.7	13317.0	13313.2	13621.8	14677.8	15145.8	16558.4	14977.6	12739.1	14317.4	14445.1
65°	15461.9	15274.8	14921.9	15068.6	16639.3	17106.0	17857.2	15449.3	12498.8	13748.3	12787.1
67.5°	17434.8	17428.5	16994.7	17295.7	19229.4	19603.7	19336.9	15496.1	11748.8	11766.5	9845.5
70°	19401.4	19426.7	19353.3	20400.5	22728.8	23118.3	20912.7	14867.5	10063.0	8497.4	5898.5
72.5°	20959.5	20953.2	21322.4	24022.5	27270.2	27183.0	22240.6	12962.9	7225.1	4587.0	2819.0
75°	19950.3	19730.2	20830.5	25815.8	29917.2	29491.0	21111.2	9042.4	3749.8	2088.0	1517.6
77.5°	13012.3	13220.9	14835.9	21326.2	26168.7	25650.2	15488.5	4219.0	1766.8	1369.6	1100.3
80°	4712.2	4932.2	6946.9	12080.2	18029.2	17944.5	7627.3	1733.9	1195.1	1034.5	801.8
82.5°	1621.3	1702.3	2740.6	5364.8	10179.4	10558.8	2869.6	985.2	868.8	733.5	548.9
85°	636.1	728.5	1253.3	2581.2	5134.6	5172.5	1162.2	589.3	604.5	480.6	301.0
87.5°	241.6	293.4	599.5	1198.9	2344.7	2153.7	416.1	280.8	344.0	285.8	142.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P318882

CATALOG NUMBER: GAN-SA8B-830-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7
2.5°	5731.5	5758.1	5813.7	5851.7	5892.1	5903.5	5908.6	5918.7	5928.8	5925.0	5926.3
5°	5766.9	5818.8	5908.6	5946.5	5964.2	5944.0	5904.8	5873.2	5850.4	5837.7	5834.0
7.5°	5825.1	5898.5	5994.6	5988.2	5947.8	5858.0	5756.8	5680.9	5617.7	5594.9	5582.3
10°	5902.2	5988.2	6055.3	5983.2	5865.6	5710.0	5558.3	5440.6	5345.8	5309.1	5302.8
12.5°	6000.9	6088.2	6100.8	5947.8	5753.0	5540.5	5334.4	5178.8	5037.2	4991.7	4981.6
15°	6128.6	6210.8	6132.4	5885.8	5613.9	5328.1	5061.2	4850.0	4700.8	4645.2	4624.9
17.5°	6262.7	6341.1	6138.7	5783.4	5431.8	5076.4	4741.3	4525.0	4354.3	4289.8	4282.2
20°	6423.3	6458.7	6112.2	5636.7	5181.4	4750.1	4397.3	4193.7	4102.6	4057.1	4052.0
22.5°	6621.8	6583.9	6051.5	5438.1	4863.9	4373.3	4086.2	3991.3	3968.6	3958.4	3962.2
25°	6831.8	6715.4	5961.7	5178.8	4463.0	3996.4	3858.5	3885.1	3915.4	3911.6	3911.6
27.5°	7063.2	6849.5	5823.8	4834.9	4019.1	3687.8	3704.2	3801.6	3847.1	3845.9	3844.6
30°	7360.4	7001.2	5648.0	4421.3	3604.3	3470.3	3570.2	3689.1	3751.0	3748.5	3749.8
32.5°	7725.9	7168.2	5409.0	3959.7	3304.6	3309.7	3424.7	3542.4	3614.4	3608.1	3609.4
35°	8153.4	7355.4	5085.3	3504.4	3106.0	3181.9	3273.0	3355.2	3423.5	3414.6	3405.8
37.5°	8618.8	7538.7	4655.3	3097.2	2944.2	3063.0	3138.9	3152.8	3184.5	3161.7	3145.3
40°	9061.4	7679.1	4101.3	2763.3	2781.0	2961.9	3011.2	2955.5	2898.6	2891.1	2868.3
42.5°	9447.1	7725.9	3541.1	2496.5	2609.0	2855.6	2886.0	2769.6	2667.2	2619.1	2598.9
45°	9854.4	7742.3	3018.8	2272.6	2443.4	2760.8	2793.7	2638.1	2493.9	2390.2	2356.1
47.5°	10386.8	7861.2	2612.8	2107.0	2316.9	2697.6	2744.3	2533.1	2346.0	2198.0	2166.4
50°	11083.6	8096.5	2282.7	1980.5	2234.7	2655.8	2708.9	2430.7	2224.6	2046.2	2014.6
52.5°	11857.6	8312.7	2015.9	1878.0	2155.0	2582.5	2663.4	2357.4	2110.7	1905.9	1871.7
55°	12398.9	8147.0	1800.9	1771.8	2051.3	2477.5	2600.2	2295.4	1947.6	1769.3	1738.9
57.5°	12502.6	7580.5	1637.8	1661.8	1926.1	2346.0	2502.8	2157.5	1859.1	1709.8	1678.2
60°	12219.3	6791.3	1516.3	1560.6	1792.0	2180.3	2320.7	2060.2	1774.3	1646.6	1620.1
62.5°	11507.3	5983.2	1426.6	1469.6	1666.8	2012.1	2206.9	1957.7	1688.3	1574.5	1548.0
65°	10069.4	5023.3	1340.6	1388.6	1550.5	1866.7	2104.4	1862.9	1603.6	1516.3	1491.1
67.5°	7600.7	3762.4	1259.6	1302.6	1446.8	1740.2	1993.1	1769.3	1521.4	1465.8	1435.4
70°	4475.7	2356.1	1167.3	1212.8	1338.0	1608.7	1874.3	1666.8	1419.0	1393.7	1354.5
72.5°	2082.9	1417.7	1062.3	1106.6	1201.4	1432.9	1721.2	1532.8	1297.6	1241.9	1188.8
75°	1243.2	1037.0	938.4	977.6	1044.6	1245.7	1529.0	1396.2	1182.5	1109.1	1053.5
77.5°	929.5	793.0	801.8	843.5	897.9	1090.2	1354.5	1288.7	1093.9	1037.0	999.1
80°	669.0	602.0	653.8	699.4	756.3	991.5	1297.6	1191.3	989.0	913.1	877.7
82.5°	446.4	432.5	492.0	538.8	594.4	867.6	1219.1	1043.4	844.8	748.7	670.3
85°	246.6	260.5	331.3	351.6	399.6	610.8	999.1	838.5	636.1	512.2	489.4
87.5°	102.4	120.1	178.3	172.0	212.5	364.2	657.6	505.9	404.7	302.3	235.2
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)