

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: P300404

Luminaire Tested: **GAA-AF-09-LED-U-T4FT-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-09-LED-U-T4FT-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37449.7 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

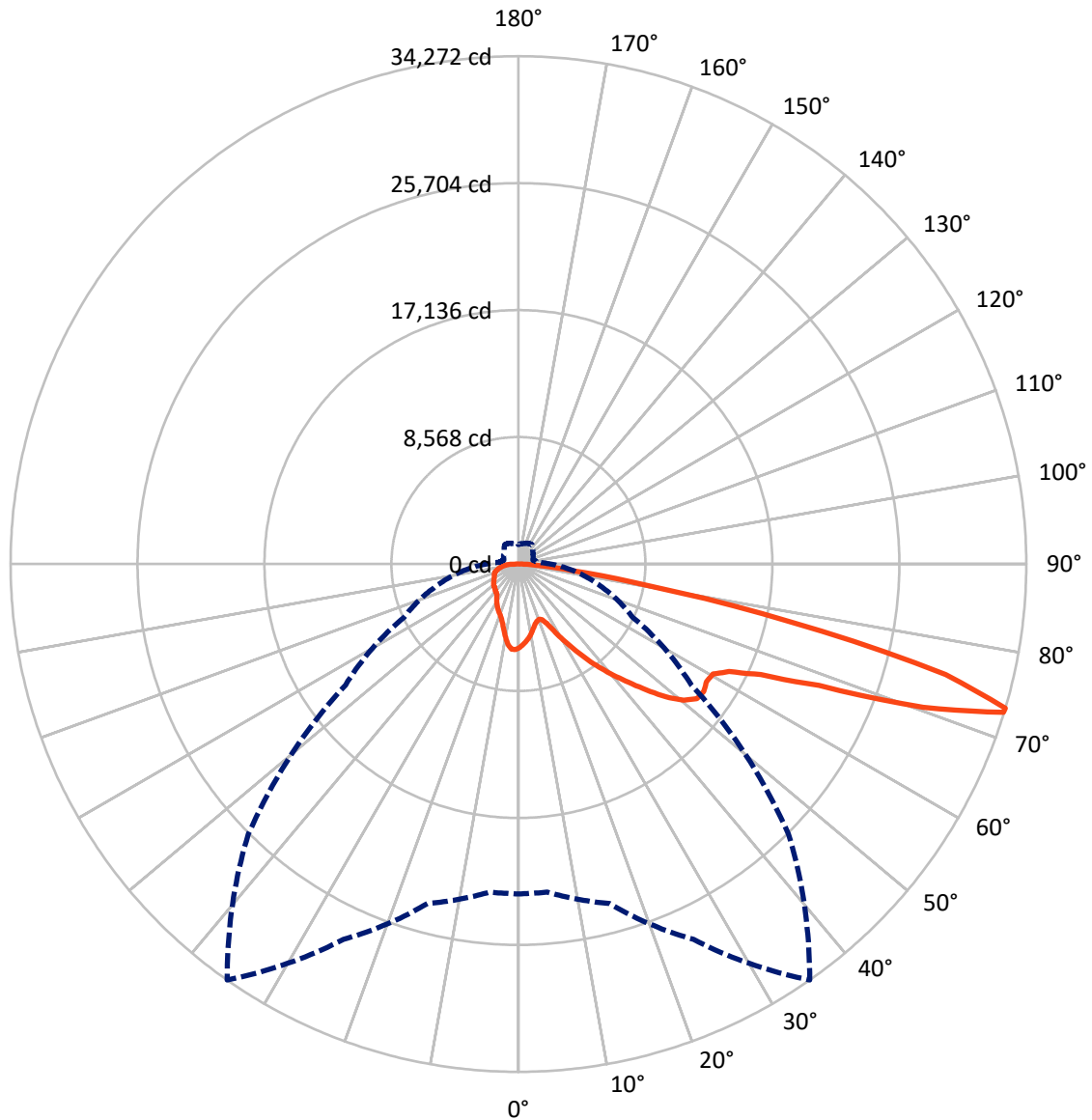
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P300404

CATALOG NUMBER: GAA-AF-09-LED-U-T4FT-7027-800

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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CATALOG NUMBER: GAA-AF-09-LED-U-T4FT-7027-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7142.7	0.0	7142.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	30307.0	0.0	30307.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	37449.7	0.0	37449.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.7	1.4
10°-20°	1277.1	3.4
20°-30°	2064.6	5.5
30°-40°	3462.1	9.2
40°-50°	5336.7	14.3
50°-60°	7159.8	19.1
60°-70°	9538.3	25.5
70°-80°	7274.8	19.4
80°-90°	824.6	2.2
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°	37449.7	100.0
0°-180°	37449.7	100.0

Coefficient of Utilization



REPORT NUMBER: P300404

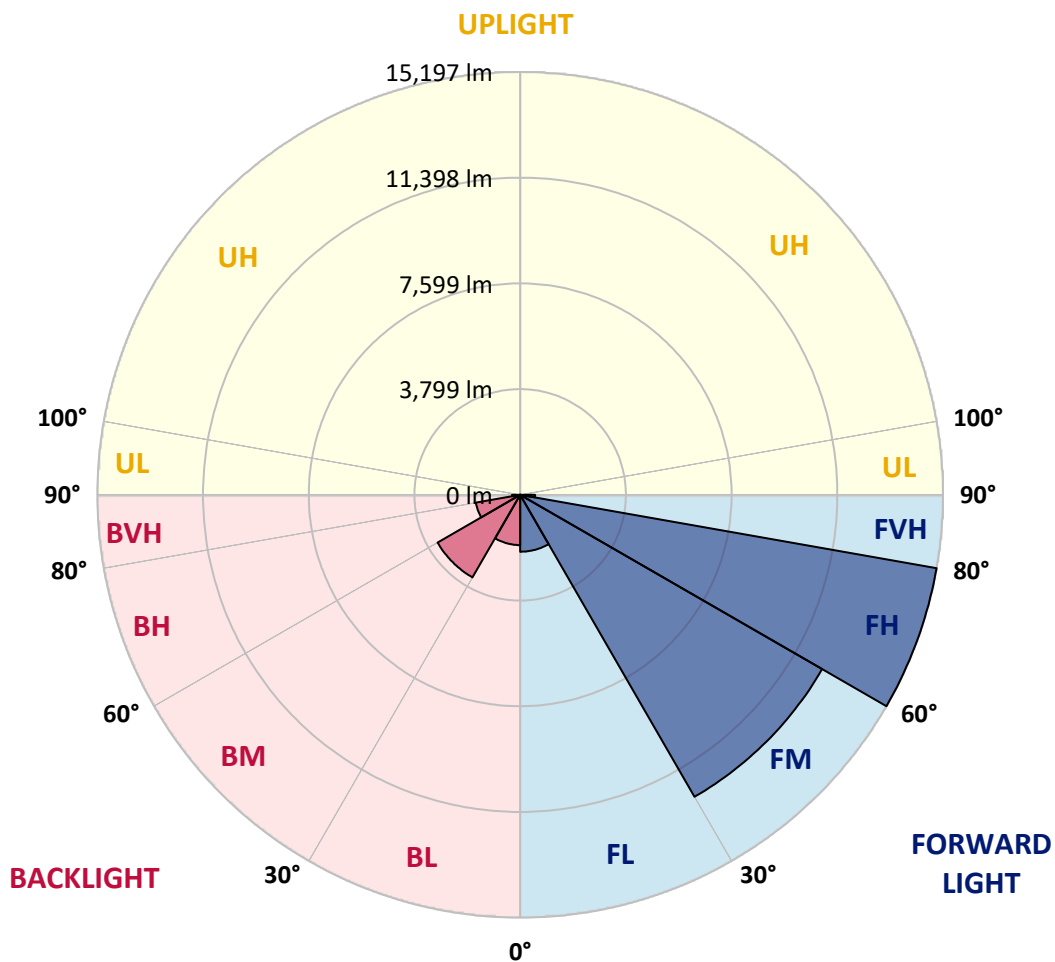
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2046.0	5.5			
FM	(30°-60°)	12530.9	33.5			
FH	(60°-80°)	15197.1	40.6			G5
FVH	(80°-90°)	533.0	1.4			G4/750
BL	(0°-30°)	1807.4	4.8	B3/2500		
BM	(30°-60°)	3427.7	9.2	B3/5000		
BH	(60°-80°)	1616.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	291.6	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: P300404

CATALOG NUMBER: GAA-AF-09-LED-U-T4FT-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5652.3	5652.3	5652.3	5652.3	5652.3	5652.3	5652.3	5652.3	5652.3	5652.3	5652.3
2.5°	5429.3	5440.1	5427.5	5443.7	5470.7	5499.5	5519.2	5548.0	5580.4	5625.3	5636.1
5°	5173.9	5190.1	5190.1	5218.9	5271.1	5317.8	5361.0	5407.7	5476.1	5553.4	5584.0
7.5°	4893.4	4902.4	4918.6	4961.7	5037.3	5103.8	5165.0	5240.5	5334.0	5436.5	5490.5
10°	4555.3	4567.9	4593.1	4654.2	4756.7	4848.4	4936.6	5040.9	5159.6	5287.2	5355.6
12.5°	4316.1	4312.5	4323.3	4368.3	4458.2	4569.7	4697.4	4830.5	4976.1	5125.4	5208.1
15°	4235.2	4215.4	4174.0	4163.3	4211.8	4323.3	4470.8	4634.4	4808.9	4988.7	5091.2
17.5°	4285.5	4251.4	4138.1	4055.4	4048.2	4132.7	4289.1	4472.6	4674.0	4893.4	5021.1
20°	4602.1	4521.1	4242.4	4050.0	3983.4	4024.8	4161.5	4355.7	4593.1	4884.4	5048.1
22.5°	5359.2	5240.5	4648.8	4290.9	4066.1	4015.8	4118.3	4325.1	4602.1	4995.9	5204.5
25°	6461.6	6292.5	5346.6	4891.6	4427.6	4159.7	4183.0	4395.2	4729.7	5254.9	5506.6
27.5°	7332.0	7222.3	6258.4	5738.6	5085.8	4548.1	4393.4	4571.5	4990.5	5679.3	5936.5
30°	7849.9	7783.4	7233.1	6699.0	5925.7	5166.8	4796.3	4902.4	5398.7	6267.4	6479.6
32.5°	8450.6	8411.0	8141.3	7650.3	6832.1	5979.6	5434.7	5396.9	5945.5	6974.1	7071.2
35°	9072.8	9060.3	8902.0	8549.5	7805.0	7051.5	6281.8	6026.4	6540.7	7707.9	7646.7
37.5°	9651.9	9630.3	9538.6	9333.6	8822.9	8202.4	7145.0	6672.0	7182.7	8409.2	8137.7
40°	10718.4	10549.3	10234.6	10079.9	9851.5	9171.8	7830.2	7274.5	7848.1	9078.2	8562.1
42.5°	12018.6	11743.4	11157.2	10945.0	10912.6	9936.1	8297.7	7858.9	8518.9	9741.8	8979.3
45°	13041.9	12782.9	12277.6	12009.6	12128.3	10628.4	8767.1	8483.0	9209.5	10437.8	9409.1
47.5°	14133.5	13727.1	13058.1	13139.0	13398.0	11283.1	9245.5	9153.8	9966.6	11216.5	9943.3
50°	14173.1	13861.9	13568.8	14052.6	14455.4	11885.5	9844.3	9856.9	10892.8	12196.6	10653.6
52.5°	13351.2	13284.7	13750.4	14511.2	15092.0	12362.1	10525.9	10583.5	12077.9	13322.4	11434.1
55°	13063.5	12987.9	13525.6	14351.1	15178.4	12755.9	11265.1	11369.4	13511.3	14509.4	12194.8
57.5°	13764.8	13597.6	13633.5	14275.6	14967.9	13187.5	12070.7	12281.2	15068.7	15547.0	12684.0
60°	15725.1	15367.2	14687.4	14671.2	15081.2	13835.0	13002.3	13259.5	16687.2	16043.4	12493.4
62.5°	18474.8	18116.9	16843.7	16014.6	15953.5	14903.2	14146.1	14214.4	17622.4	15370.8	11329.8
65°	21451.1	21131.0	19708.5	18537.7	17973.0	16672.8	15475.1	14640.6	17316.6	13520.2	9294.0
67.5°	25064.1	24720.6	23497.7	22416.8	21873.7	19528.6	16408.4	14232.4	15376.2	10473.8	6681.0
70°	27590.8	27240.1	26758.1	27634.0	28963.0	23648.7	16528.9	12572.5	11484.5	6961.5	4021.2
72.5°	24294.4	24130.7	25010.1	28698.6	34234.0	26148.5	14941.0	9153.8	6670.2	3695.7	2327.1
73°	22258.6	22222.6	23722.5	27952.3	34271.8	25763.6	14245.0	8508.1	5720.7	3269.5	2127.5
75°	10051.2	10340.7	13628.1	21350.4	29775.8	21229.9	10026.0	4880.8	3231.7	2258.8	1606.0
77.5°	2415.2	2515.9	4264.0	10139.3	18803.9	12651.6	4542.7	2413.4	2066.3	1595.2	1172.5
80°	1028.7	1062.8	1641.9	3746.0	8853.4	5094.8	2093.3	1616.7	1429.7	1113.2	821.9
82.5°	571.9	607.9	931.6	1699.5	3573.4	1737.2	1276.9	1125.8	940.6	670.8	534.1
85°	323.7	343.5	544.9	949.5	1514.2	697.8	764.3	748.1	530.5	345.3	262.6
87.5°	152.9	165.5	262.6	440.6	593.5	273.4	388.5	428.0	332.7	210.4	136.7
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: P300404

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5652.3	5652.3	5652.3	5652.3	5652.3	5652.3	5652.3	5652.3	5652.3	5652.3
2.5°	5648.7	5681.1	5718.9	5738.6	5756.6	5778.2	5799.8	5799.8	5803.4	5805.2
5°	5609.2	5675.7	5735.0	5760.2	5765.6	5765.6	5760.2	5731.4	5706.3	5717.1
7.5°	5526.4	5623.5	5673.9	5664.9	5596.6	5517.4	5450.9	5370.0	5328.6	5321.4
10°	5407.7	5519.2	5528.2	5438.3	5269.3	5100.2	4959.9	4823.3	4758.5	4742.3
12.5°	5276.5	5379.0	5321.4	5136.2	4864.6	4618.2	4440.2	4301.7	4240.6	4224.4
15°	5170.4	5240.5	5094.8	4803.5	4461.8	4201.0	4053.6	3951.0	3907.9	3895.3
17.5°	5114.6	5129.0	4862.8	4469.0	4105.7	3888.1	3796.4	3747.8	3731.6	3722.7
20°	5141.6	5040.9	4641.6	4157.9	3814.4	3661.5	3639.9	3627.3	3623.7	3618.3
22.5°	5276.5	5013.9	4438.4	3862.9	3559.0	3492.5	3510.4	3508.6	3505.0	3501.5
25°	5517.4	5037.3	4240.6	3582.4	3345.0	3330.6	3363.0	3363.0	3348.6	3348.6
27.5°	5835.8	5085.8	4019.4	3316.2	3150.8	3152.6	3177.7	3170.5	3154.4	3143.6
30°	6224.2	5116.4	3760.4	3077.0	2969.1	2961.9	2969.1	2938.6	2890.0	2886.4
32.5°	6621.6	5078.6	3460.1	2864.8	2776.7	2760.5	2755.1	2712.0	2656.2	2640.0
35°	6981.3	4940.2	3154.4	2695.8	2593.3	2557.3	2582.5	2568.1	2517.7	2505.1
37.5°	7243.9	4683.0	2879.2	2546.5	2462.0	2453.0	2469.2	2474.6	2415.2	2402.6
40°	7420.1	4334.1	2643.6	2420.6	2436.8	2402.6	2348.7	2310.9	2292.9	2287.5
42.5°	7562.2	3970.8	2445.8	2361.3	2442.2	2343.3	2226.4	2165.3	2197.6	2212.0
45°	7725.9	3616.5	2280.3	2287.5	2415.2	2275.0	2141.9	2082.5	2095.1	2098.7
47.5°	7950.7	3184.9	2102.3	2168.8	2325.3	2228.2	2089.7	2005.2	1945.9	1918.9
50°	8261.8	2674.2	1917.1	2035.8	2237.2	2194.0	2008.8	1918.9	1809.2	1784.0
52.5°	8477.6	2197.6	1764.2	1924.3	2158.1	2125.7	1944.1	1827.2	1712.1	1690.5
55°	8360.7	1825.4	1631.1	1800.2	2053.8	2041.2	1890.1	1733.6	1643.7	1625.7
57.5°	7776.2	1589.8	1528.6	1683.3	1926.1	1969.2	1818.2	1654.5	1589.8	1577.2
60°	6661.2	1442.3	1463.9	1604.2	1821.8	1897.3	1746.2	1611.4	1568.2	1559.2
62.5°	5168.6	1343.4	1415.3	1546.6	1740.8	1846.9	1706.7	1606.0	1589.8	1579.0
65°	3702.9	1264.3	1363.2	1489.1	1667.1	1800.2	1692.3	1598.8	1602.4	1593.4
67.5°	2515.9	1194.1	1300.2	1424.3	1595.2	1758.8	1672.5	1573.6	1618.5	1607.8
70°	1760.6	1125.8	1226.5	1341.6	1505.2	1701.3	1636.5	1535.8	1532.2	1489.1
72.5°	1374.0	1035.9	1125.8	1226.5	1390.1	1620.3	1564.6	1451.3	1391.9	1347.0
73°	1311.0	1014.3	1100.6	1201.3	1365.0	1600.6	1544.8	1427.9	1361.4	1320.0
75°	1084.4	920.8	999.9	1089.8	1257.1	1507.0	1447.7	1321.8	1237.3	1212.1
77.5°	852.4	787.7	863.2	944.2	1107.8	1370.4	1303.8	1183.3	1136.6	1115.0
80°	631.2	652.8	719.4	791.3	960.3	1224.7	1165.4	1044.9	1253.5	1201.3
82.5°	444.2	494.6	555.7	620.4	805.7	1082.6	1010.7	886.6	917.2	762.5
85°	262.6	323.7	381.3	437.0	580.9	897.4	834.4	706.8	579.1	552.1
87.5°	152.9	179.8	196.0	253.6	399.2	676.2	588.1	523.3	300.3	203.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)