

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: FAIL-SAFE

Report Number: P735724

Luminaire Tested: **24APR-58-B2750-W2D-CP125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P708973)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-58-B2750-W2D-CP125-3000K
Description: 2X4 5800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

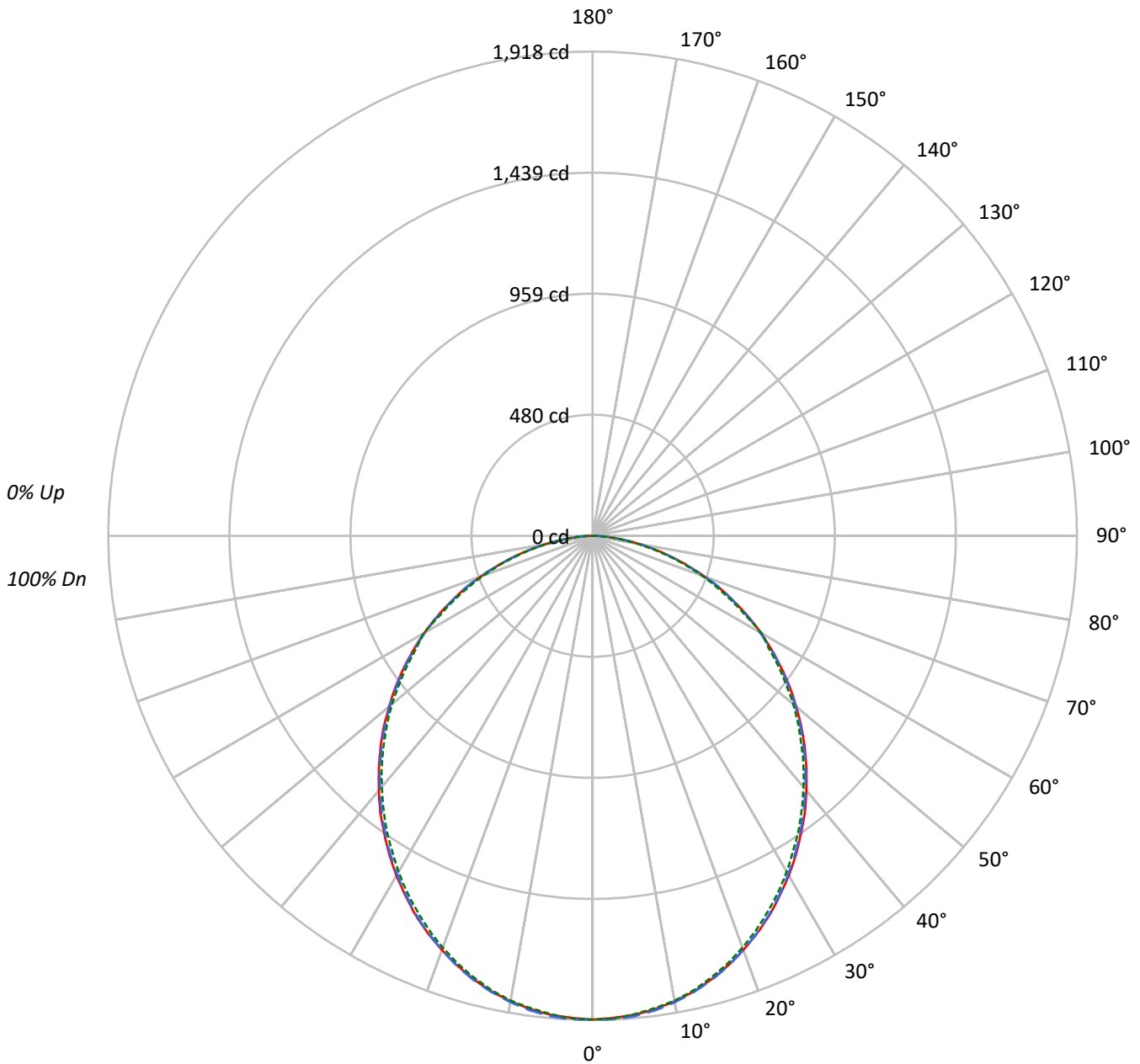
Lumens per Lamp: N/A
Luminaire Lumens: 5104.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70																			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59																			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51																			
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44																			
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2578	2578	2578
5°	2573	2580	2569
10°	2558	2564	2554
15°	2534	2538	2524
20°	2500	2499	2485
25°	2462	2457	2438
30°	2414	2406	2388
35°	2363	2355	2336
40°	2313	2302	2281
45°	2261	2249	2225
50°	2202	2193	2171
55°	2142	2130	2103
60°	2070	2057	2085
65°	1976	1970	1933
70°	1854	1856	1806
75°	1683	1670	1632
80°	1446	1427	1389
85°	1105	1095	1011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	3.5
10°-20°	512.7	10.0
20°-30°	761.0	14.9
30°-40°	895.8	17.6
40°-50°	910.4	17.8
50°-60°	809.3	15.9
60°-70°	610.5	12.0
70°-80°	339.1	6.6
80°-90°	84.3	1.7
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°-30°	1454.7	28.5
0°-40°	2350.5	46.1
0°-60°	4070.2	79.7
0°-90°	5104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1916	1916	1916	1916	1916	
5°	1905	1908	1910	1907	1902	181
15°	1819	1821	1822	1818	1812	513
25°	1659	1657	1655	1648	1642	763
35°	1439	1440	1434	1425	1422	901
45°	1188	1188	1182	1172	1170	916
55°	913	906	908	898	897	816
65°	621	617	619	611	607	614
75°	324	320	321	319	314	343
85°	72	70	71	68	66	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1916.3	1916.3	1916.3	1916.3	1916.3
2.5°	1911.4	1915.0	1917.5	1914.5	1913.8
5°	1904.7	1907.7	1910.1	1907.1	1902.2
7.5°	1891.1	1894.9	1896.7	1893.6	1886.9
10°	1872.2	1875.9	1876.4	1873.5	1869.7
12.5°	1849.0	1851.4	1851.4	1849.0	1844.7
15°	1818.9	1820.8	1822.0	1817.7	1812.2
17.5°	1784.7	1787.7	1786.5	1779.8	1777.4
20°	1746.2	1748.6	1745.5	1741.3	1735.7
22.5°	1703.9	1704.5	1702.1	1697.2	1691.6
25°	1658.6	1657.4	1655.0	1647.6	1642.1
27.5°	1606.0	1608.4	1602.2	1595.5	1591.9
30°	1554.0	1554.5	1548.5	1539.8	1536.8
32.5°	1498.3	1497.0	1492.7	1483.6	1478.7
35°	1438.8	1439.5	1433.9	1425.4	1422.3
37.5°	1381.3	1377.7	1373.4	1363.6	1361.7
40°	1317.1	1316.4	1310.4	1301.7	1298.8
42.5°	1252.8	1252.2	1247.3	1238.8	1236.3
45°	1188.0	1188.0	1181.8	1172.0	1169.5
47.5°	1121.8	1119.4	1115.1	1106.6	1103.5
50°	1052.0	1050.2	1047.8	1038.0	1037.3
52.5°	983.5	982.3	978.0	969.5	964.6
55°	913.1	906.4	908.2	898.4	896.6
57.5°	840.9	834.2	837.8	829.3	825.7
60°	769.3	762.6	764.4	758.9	774.9
62.5°	695.9	691.6	691.6	704.5	681.2
65°	620.6	616.9	618.8	610.8	607.1
67.5°	546.6	541.0	552.7	538.0	531.9
70°	471.3	467.5	471.9	463.3	459.0
72.5°	396.6	393.5	392.3	389.2	385.6
75°	323.7	319.5	321.3	318.8	313.9
77.5°	252.8	251.5	251.0	247.9	244.2
80°	186.6	185.5	184.2	181.7	179.3
82.5°	124.8	123.7	123.0	121.8	121.2
85°	71.6	69.8	70.9	68.0	65.5
87.5°	27.0	26.3	27.6	25.1	23.2
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)