

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: P735720

Luminaire Tested: **24APR-58-B2750-W2D-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735720
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-3500K
Description: 2X4 5800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT

Light Source: -
Ballast/Driver: -

Summary

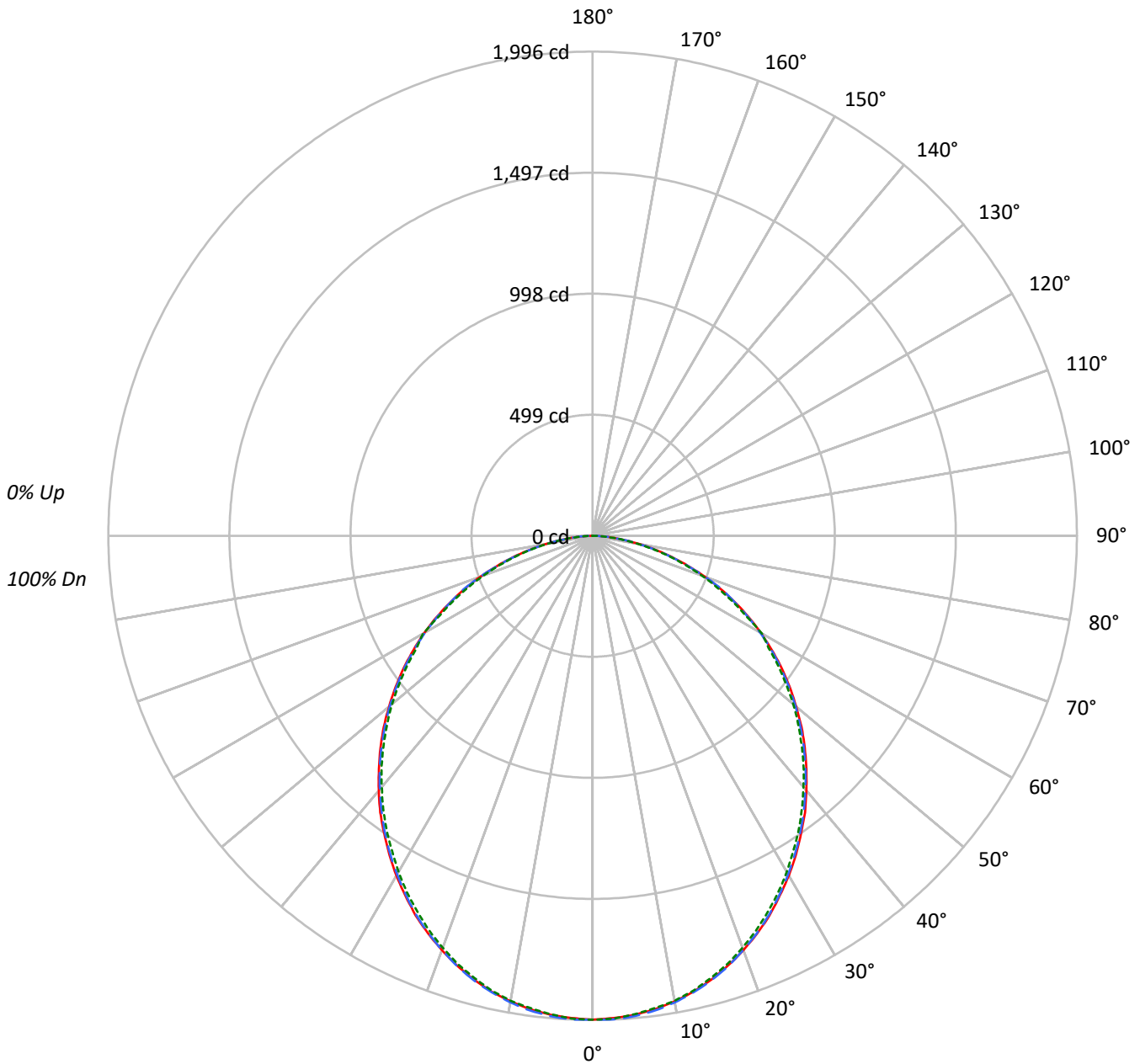
Lumens per Lamp: N/A
Luminaire Lumens: 5313.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P735720

CATALOG NUMBER: 24APR-58-B2750-W2D-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P735720

CATALOG NUMBER: 24APR-58-B2750-W2D-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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°	2684	2684	2684
5°	2678	2685	2674
10°	2663	2669	2659
15°	2637	2642	2628
20°	2603	2602	2587
25°	2563	2557	2538
30°	2513	2504	2486
35°	2460	2452	2432
40°	2408	2396	2374
45°	2353	2341	2316
50°	2292	2283	2260
55°	2230	2218	2189
60°	2155	2141	2171
65°	2057	2051	2012
70°	1930	1932	1880
75°	1752	1738	1699
80°	1506	1485	1446
85°	1150	1141	1053



TEST NUMBER: P735720

CATALOG NUMBER: 24APR-58-B2750-W2D-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	3.5
10°-20°	533.7	10.0
20°-30°	792.2	14.9
30°-40°	932.5	17.6
40°-50°	947.6	17.8
50°-60°	842.4	15.9
60°-70°	635.4	12.0
70°-80°	352.9	6.6
80°-90°	87.8	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°	1514.3	28.5
0°-40°	2446.8	46.1
0°-60°	4236.9	79.7
0°-90°	5313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1995	1995	1995	1995	1995	
5°	1983	1986	1988	1985	1980	188
15°	1893	1895	1897	1892	1886	534
25°	1726	1725	1723	1715	1709	794
35°	1498	1498	1493	1484	1481	938
45°	1237	1237	1230	1220	1217	954
55°	950	944	945	935	933	849
65°	646	642	644	636	632	640
75°	337	333	334	332	327	357
85°	74	73	74	71	68	90
90°	0	0	0	0	0	



TEST NUMBER: P735720

CATALOG NUMBER: 24APR-58-B2750-W2D-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1994.8	1994.8	1994.8	1994.8	1994.8
2.5°	1989.7	1993.4	1996.0	1992.9	1992.2
5°	1982.7	1985.8	1988.3	1985.2	1980.1
7.5°	1968.6	1972.5	1974.4	1971.1	1964.1
10°	1948.8	1952.7	1953.3	1950.2	1946.3
12.5°	1924.7	1927.2	1927.2	1924.7	1920.2
15°	1893.4	1895.4	1896.6	1892.2	1886.4
17.5°	1857.8	1860.9	1859.7	1852.7	1850.2
20°	1817.7	1820.2	1817.0	1812.6	1806.8
22.5°	1773.6	1774.3	1771.8	1766.7	1760.9
25°	1726.5	1725.3	1722.7	1715.1	1709.3
27.5°	1671.7	1674.3	1667.9	1660.9	1657.1
30°	1617.6	1618.2	1611.9	1602.9	1599.8
32.5°	1559.6	1558.3	1553.9	1544.3	1539.2
35°	1497.8	1498.4	1492.7	1483.8	1480.6
37.5°	1437.9	1434.1	1429.7	1419.5	1417.5
40°	1371.0	1370.3	1364.0	1355.0	1351.9
42.5°	1304.1	1303.5	1298.4	1289.5	1287.0
45°	1236.6	1236.6	1230.2	1220.0	1217.4
47.5°	1167.8	1165.2	1160.8	1151.9	1148.7
50°	1095.1	1093.2	1090.7	1080.5	1079.8
52.5°	1023.8	1022.5	1018.1	1009.2	1004.1
55°	950.5	943.5	945.4	935.2	933.3
57.5°	875.3	868.4	872.1	863.3	859.5
60°	800.8	793.8	795.7	790.0	806.6
62.5°	724.4	719.9	719.9	733.3	709.1
65°	646.0	642.1	644.1	635.8	631.9
67.5°	569.0	563.2	575.3	560.0	553.7
70°	490.6	486.7	491.2	482.2	477.8
72.5°	412.8	409.6	408.4	405.2	401.4
75°	337.0	332.6	334.4	331.9	326.8
77.5°	263.1	261.8	261.3	258.0	254.2
80°	194.3	193.1	191.7	189.2	186.6
82.5°	130.0	128.7	128.1	126.7	126.2
85°	74.5	72.6	73.9	70.7	68.2
87.5°	28.1	27.4	28.7	26.2	24.2
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)