

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: P735726

Luminaire Tested: **24APR-58-B2750-W2D-CP125-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735726
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-CP125-4000K
Description: 2X4 5800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 4000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

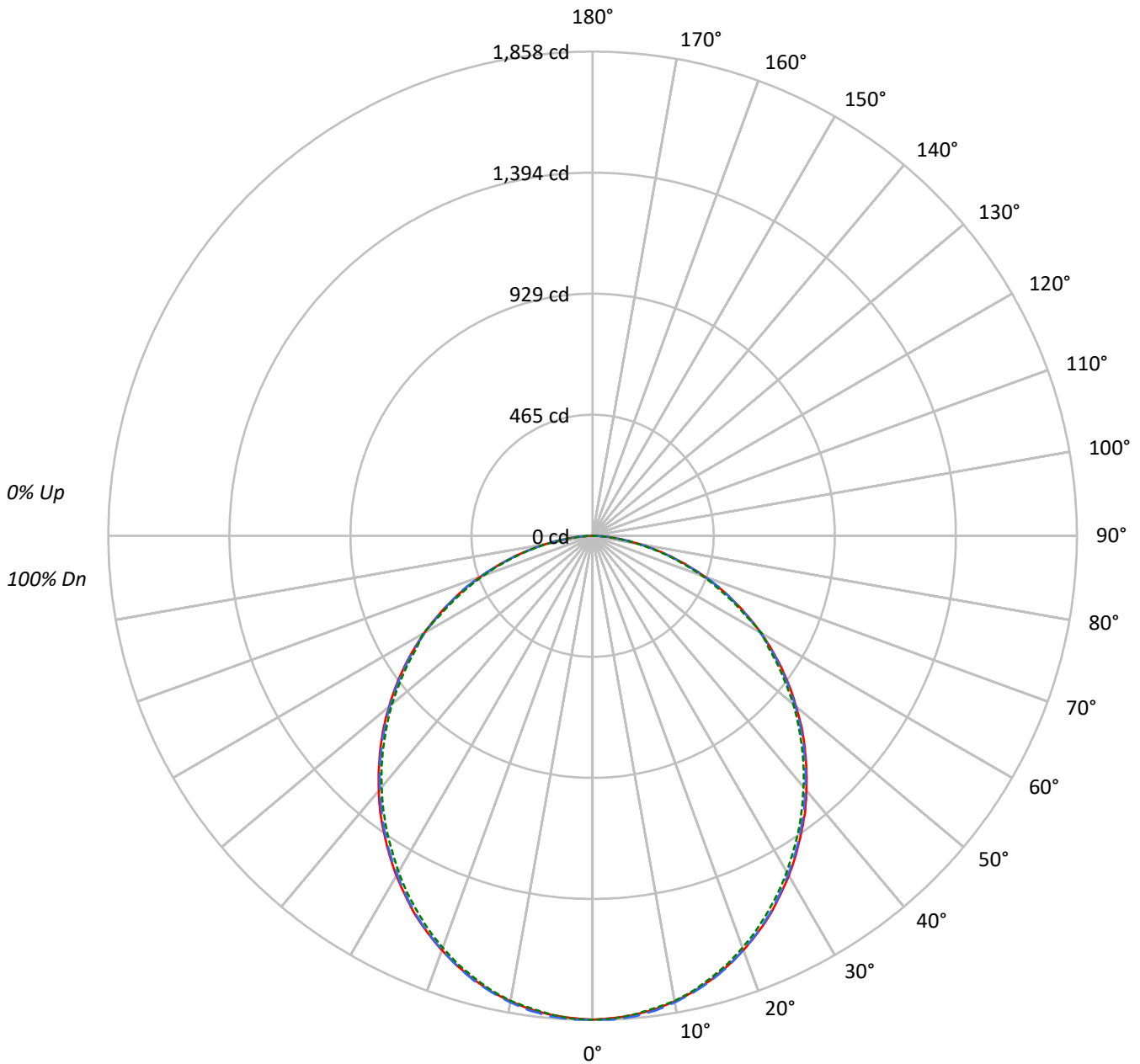
Lumens per Lamp: N/A
Luminaire Lumens: 4946.0 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2499	2499	2499
5°	2493	2500	2490
10°	2479	2484	2476
15°	2455	2459	2446
20°	2423	2422	2408
25°	2386	2381	2362
30°	2340	2331	2314
35°	2290	2282	2264
40°	2242	2230	2211
45°	2191	2179	2156
50°	2134	2125	2104
55°	2076	2065	2038
60°	2006	1993	2021
65°	1915	1909	1873
70°	1797	1799	1750
75°	1631	1618	1581
80°	1402	1383	1346
85°	1071	1061	980



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.4	3.5
10°-20°	496.8	10.0
20°-30°	737.5	14.9
30°-40°	868.1	17.6
40°-50°	882.2	17.8
50°-60°	784.2	15.9
60°-70°	591.6	12.0
70°-80°	328.6	6.6
80°-90°	81.7	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°	1409.7	28.5
0°-40°	2277.8	46.1
0°-60°	3944.2	79.7
0°-90°	4946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4946.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1857	1857	1857	1857	1857	
5°	1846	1849	1851	1848	1843	175
15°	1763	1764	1766	1762	1756	497
25°	1607	1606	1604	1597	1591	740
35°	1394	1395	1390	1381	1378	873
45°	1151	1151	1145	1136	1133	888
55°	885	878	880	871	869	791
65°	601	598	600	592	588	595
75°	314	310	311	309	304	333
85°	69	68	69	66	64	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1857.0	1857.0	1857.0	1857.0	1857.0
2.5°	1852.2	1855.7	1858.1	1855.2	1854.6
5°	1845.7	1848.6	1851.0	1848.1	1843.3
7.5°	1832.6	1836.2	1838.0	1835.0	1828.5
10°	1814.2	1817.8	1818.4	1815.5	1811.9
12.5°	1791.7	1794.1	1794.1	1791.7	1787.6
15°	1762.6	1764.5	1765.6	1761.5	1756.1
17.5°	1729.5	1732.4	1731.2	1724.7	1722.4
20°	1692.1	1694.5	1691.5	1687.4	1682.0
22.5°	1651.1	1651.7	1649.4	1644.6	1639.3
25°	1607.3	1606.1	1603.7	1596.6	1591.3
27.5°	1556.3	1558.6	1552.6	1546.1	1542.6
30°	1505.9	1506.4	1500.5	1492.2	1489.3
32.5°	1451.9	1450.7	1446.5	1437.7	1432.9
35°	1394.3	1394.9	1389.5	1381.3	1378.3
37.5°	1338.6	1335.0	1330.9	1321.4	1319.6
40°	1276.3	1275.7	1269.8	1261.4	1258.6
42.5°	1214.1	1213.4	1208.7	1200.4	1198.1
45°	1151.2	1151.2	1145.2	1135.7	1133.3
47.5°	1087.1	1084.7	1080.6	1072.3	1069.3
50°	1019.5	1017.7	1015.3	1005.9	1005.2
52.5°	953.1	951.9	947.7	939.5	934.7
55°	884.9	878.4	880.1	870.6	868.9
57.5°	814.9	808.4	811.9	803.6	800.1
60°	745.5	739.0	740.8	735.4	750.9
62.5°	674.4	670.2	670.2	682.6	660.1
65°	601.4	597.8	599.7	591.9	588.3
67.5°	529.7	524.3	535.5	521.3	515.4
70°	456.7	453.1	457.3	448.9	444.8
72.5°	384.3	381.3	380.2	377.2	373.7
75°	313.7	309.6	311.3	309.0	304.2
77.5°	245.0	243.7	243.2	240.2	236.6
80°	180.9	179.7	178.5	176.1	173.7
82.5°	121.0	119.8	119.2	118.0	117.5
85°	69.4	67.6	68.7	65.9	63.5
87.5°	26.1	25.5	26.7	24.4	22.5
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)