

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: P735727

Luminaire Tested: **24APR-58-B2750-W2D-CP125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735727
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-CP125-5000K
Description: 2X4 5800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 5000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

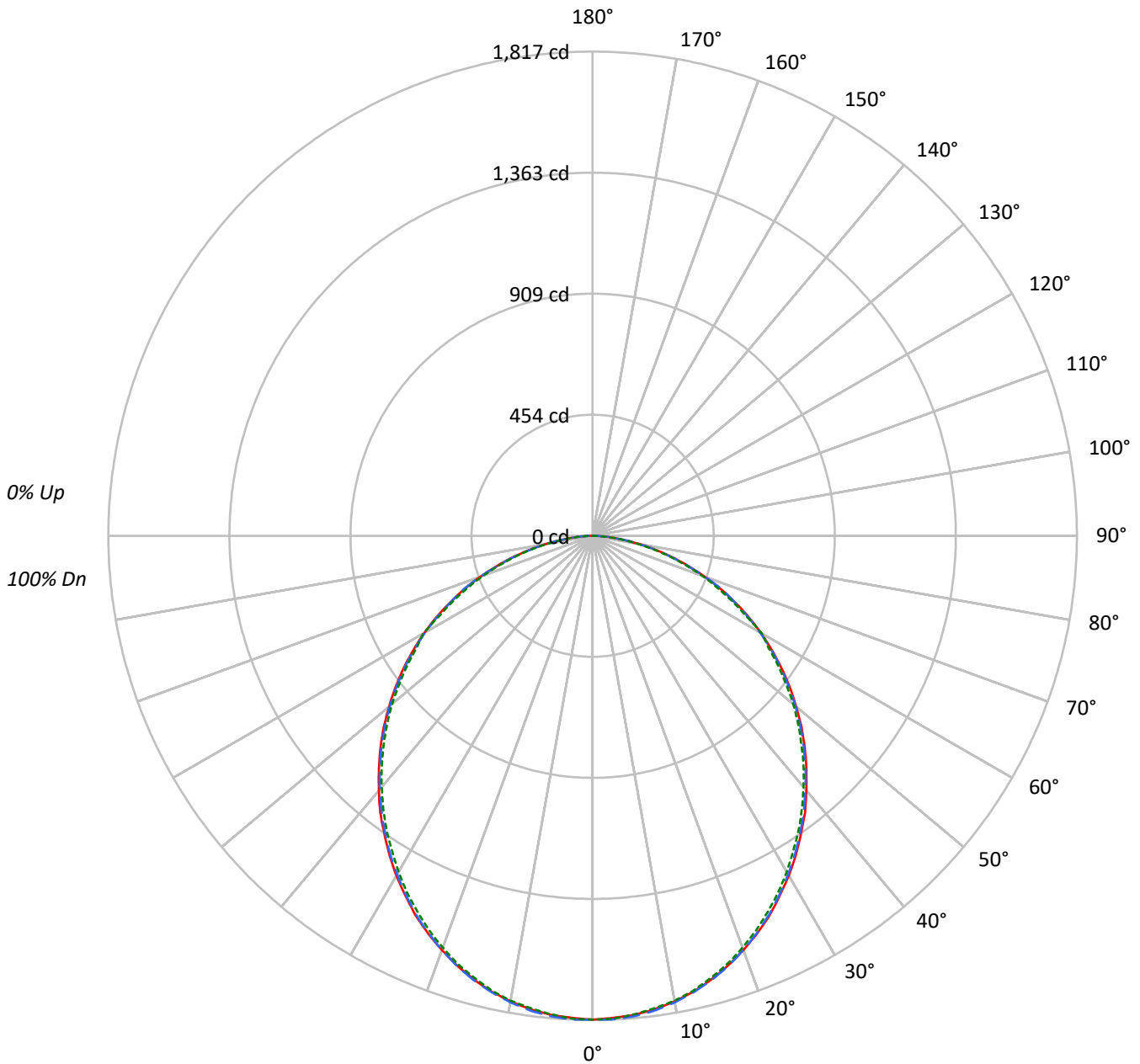
Lumens per Lamp: N/A
Luminaire Lumens: 4836.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2443	2443	2443
5°	2437	2444	2434
10°	2424	2429	2420
15°	2401	2405	2392
20°	2369	2368	2355
25°	2333	2328	2310
30°	2288	2279	2262
35°	2239	2232	2213
40°	2192	2181	2161
45°	2142	2131	2109
50°	2087	2078	2057
55°	2030	2019	1993
60°	1961	1949	1976
65°	1872	1867	1831
70°	1757	1759	1711
75°	1594	1582	1546
80°	1370	1352	1316
85°	1047	1037	959



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	3.5
10°-20°	485.8	10.0
20°-30°	721.1	14.9
30°-40°	848.8	17.6
40°-50°	862.6	17.8
50°-60°	766.8	15.9
60°-70°	578.4	12.0
70°-80°	321.2	6.6
80°-90°	79.9	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°	1378.4	28.5
0°-40°	2227.1	46.1
0°-60°	3856.5	79.7
0°-90°	4836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1805	1808	1810	1807	1802	171
15°	1723	1725	1726	1722	1717	486
25°	1572	1570	1568	1561	1556	723
35°	1363	1364	1359	1351	1348	853
45°	1126	1126	1120	1110	1108	868
55°	865	859	860	851	850	773
65°	588	584	586	579	575	582
75°	307	303	304	302	297	325
85°	68	66	67	64	62	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1815.7	1815.7	1815.7	1815.7	1815.7
2.5°	1811.0	1814.5	1816.8	1813.9	1813.3
5°	1804.7	1807.5	1809.8	1807.0	1802.3
7.5°	1791.8	1795.4	1797.1	1794.2	1787.8
10°	1773.9	1777.4	1777.9	1775.1	1771.6
12.5°	1751.9	1754.2	1754.2	1751.9	1747.8
15°	1723.4	1725.2	1726.3	1722.3	1717.1
17.5°	1691.0	1693.8	1692.7	1686.4	1684.0
20°	1654.5	1656.8	1653.9	1649.8	1644.6
22.5°	1614.4	1615.0	1612.7	1608.0	1602.8
25°	1571.5	1570.4	1568.1	1561.1	1555.9
27.5°	1521.7	1524.0	1518.1	1511.8	1508.3
30°	1472.4	1472.9	1467.1	1459.0	1456.1
32.5°	1419.6	1418.4	1414.4	1405.7	1401.0
35°	1363.3	1363.9	1358.6	1350.6	1347.6
37.5°	1308.8	1305.4	1301.3	1292.0	1290.2
40°	1247.9	1247.3	1241.6	1233.4	1230.6
42.5°	1187.1	1186.5	1181.8	1173.7	1171.4
45°	1125.6	1125.6	1119.7	1110.5	1108.1
47.5°	1062.9	1060.6	1056.6	1048.5	1045.6
50°	996.8	995.1	992.8	983.5	982.9
52.5°	931.9	930.7	926.7	918.6	913.9
55°	865.2	858.8	860.5	851.3	849.5
57.5°	796.8	790.4	793.8	785.8	782.3
60°	728.9	722.6	724.3	719.0	734.2
62.5°	659.4	655.3	655.3	667.5	645.5
65°	588.0	584.5	586.3	578.7	575.2
67.5°	517.9	512.6	523.6	509.7	504.0
70°	446.5	443.0	447.1	439.0	434.9
72.5°	375.8	372.8	371.7	368.8	365.4
75°	306.7	302.7	304.4	302.1	297.4
77.5°	239.5	238.3	237.8	234.9	231.3
80°	176.8	175.7	174.5	172.2	169.9
82.5°	118.3	117.2	116.6	115.4	114.9
85°	67.8	66.1	67.2	64.4	62.1
87.5°	25.5	24.9	26.1	23.8	22.0
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)