

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: P735729

Luminaire Tested: **24APR-58-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735729
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-CP250-3000K
Description: 2X4 5800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3000K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

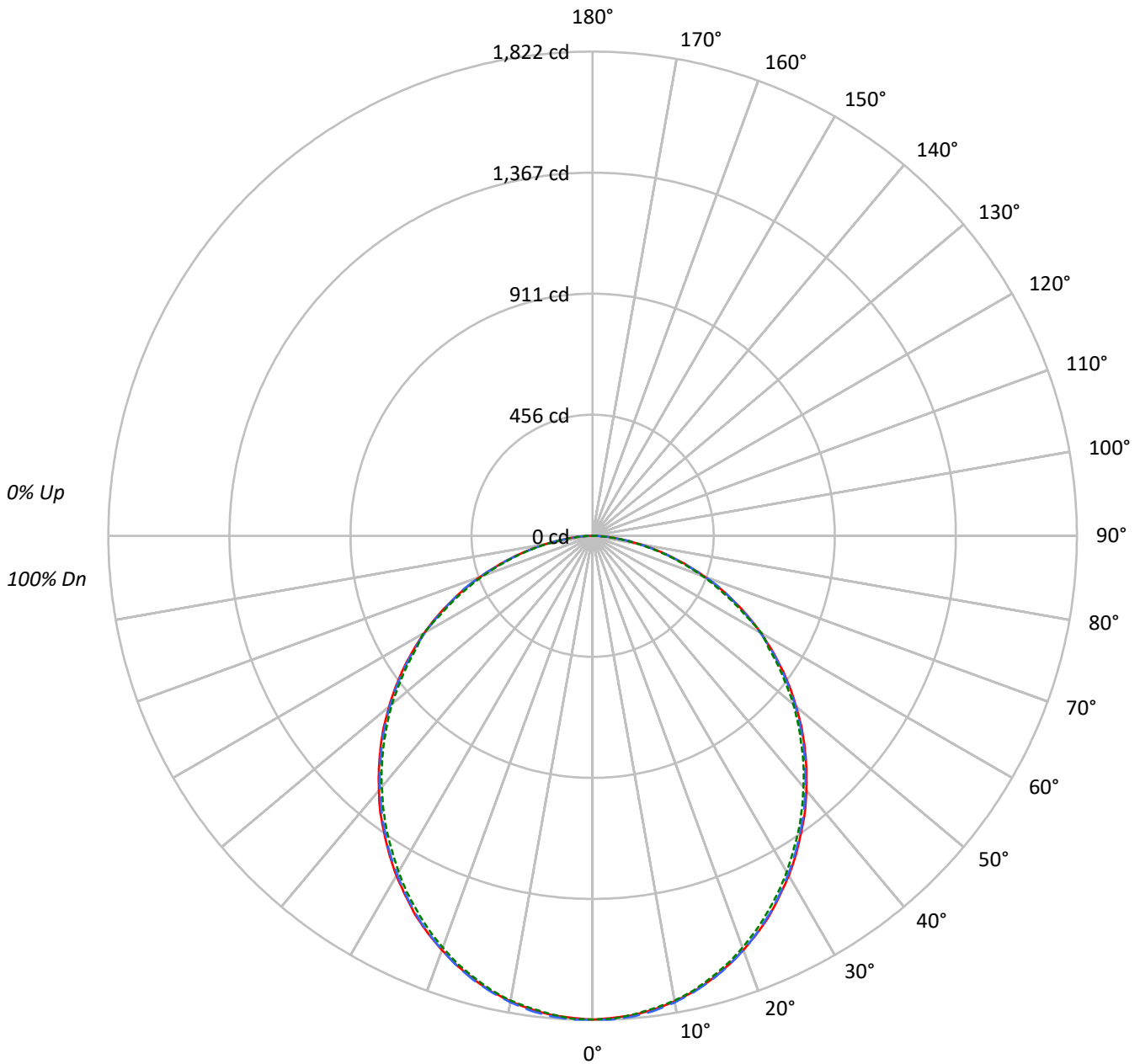
Lumens per Lamp: N/A
Luminaire Lumens: 4849.0 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P735729

CATALOG NUMBER: 24APR-58-B2750-W2D-CP250-3000K

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°	2449	2449	2449
5°	2444	2451	2441
10°	2430	2436	2427
15°	2407	2411	2398
20°	2375	2374	2361
25°	2339	2334	2316
30°	2294	2286	2268
35°	2245	2238	2220
40°	2198	2187	2167
45°	2148	2136	2114
50°	2092	2084	2063
55°	2035	2024	1998
60°	1967	1954	1981
65°	1877	1872	1836
70°	1761	1764	1716
75°	1599	1587	1550
80°	1374	1356	1320
85°	1050	1041	960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	3.5
10°-20°	487.1	10.0
20°-30°	723.0	14.9
30°-40°	851.1	17.6
40°-50°	864.9	17.8
50°-60°	768.8	15.9
60°-70°	580.0	12.0
70°-80°	322.1	6.6
80°-90°	80.1	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°	1382.1	28.5
0°-40°	2233.1	46.1
0°-60°	3866.8	79.7
0°-90°	4849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1820	1820	1820	1820	1820	
5°	1810	1812	1815	1812	1807	172
15°	1728	1730	1731	1727	1722	487
25°	1576	1575	1572	1565	1560	725
35°	1367	1368	1362	1354	1351	856
45°	1129	1129	1123	1113	1111	871
55°	868	861	863	854	852	775
65°	590	586	588	580	577	584
75°	308	304	305	303	298	326
85°	68	66	67	65	62	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1820.5	1820.5	1820.5	1820.5	1820.5
2.5°	1815.9	1819.3	1821.7	1818.8	1818.2
5°	1809.5	1812.3	1814.7	1811.8	1807.2
7.5°	1796.7	1800.2	1801.9	1799.0	1792.6
10°	1778.6	1782.2	1782.7	1779.9	1776.3
12.5°	1756.6	1758.9	1758.9	1756.6	1752.5
15°	1728.0	1729.9	1731.0	1726.9	1721.7
17.5°	1695.6	1698.4	1697.3	1690.9	1688.6
20°	1658.9	1661.3	1658.3	1654.3	1649.0
22.5°	1618.7	1619.4	1617.0	1612.4	1607.1
25°	1575.7	1574.6	1572.3	1565.3	1560.0
27.5°	1525.7	1528.1	1522.2	1515.8	1512.4
30°	1476.4	1476.9	1471.1	1462.9	1460.1
32.5°	1423.4	1422.2	1418.2	1409.5	1404.8
35°	1367.0	1367.6	1362.3	1354.2	1351.3
37.5°	1312.3	1308.9	1304.8	1295.5	1293.7
40°	1251.3	1250.7	1244.9	1236.7	1233.9
42.5°	1190.3	1189.6	1185.0	1176.9	1174.6
45°	1128.6	1128.6	1122.7	1113.4	1111.1
47.5°	1065.8	1063.4	1059.4	1051.3	1048.4
50°	999.5	997.8	995.4	986.1	985.5
52.5°	934.4	933.2	929.1	921.1	916.4
55°	867.5	861.1	862.9	853.5	851.8
57.5°	798.9	792.5	796.0	787.9	784.4
60°	730.9	724.5	726.2	721.0	736.2
62.5°	661.2	657.0	657.0	669.3	647.2
65°	589.6	586.1	587.9	580.3	576.8
67.5°	519.3	514.0	525.0	511.1	505.3
70°	447.7	444.2	448.3	440.1	436.1
72.5°	376.8	373.8	372.7	369.8	366.4
75°	307.6	303.5	305.2	302.9	298.2
77.5°	240.2	238.9	238.4	235.5	232.0
80°	177.3	176.2	175.0	172.7	170.3
82.5°	118.6	117.5	116.9	115.7	115.2
85°	68.0	66.3	67.4	64.6	62.2
87.5°	25.6	25.0	26.2	23.9	22.1
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)