

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: P735717

Luminaire Tested: **24APR-49-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735717
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-49-B2750-W2D-CP250-5000K
Description: 2X4 4900 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 5000K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

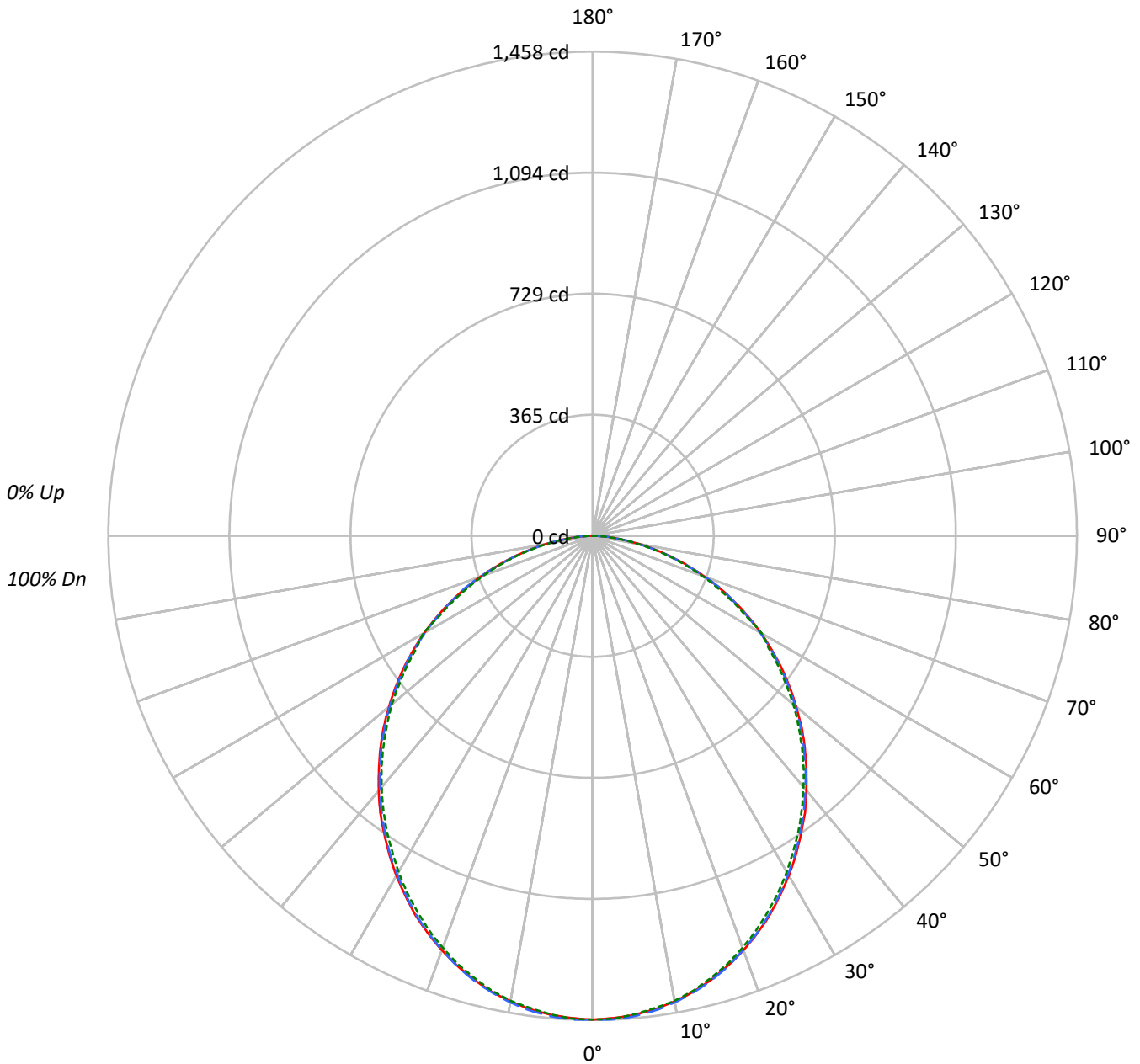
Lumens per Lamp: N/A
Luminaire Lumens: 3881.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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°	1961	1961	1961
5°	1956	1962	1954
10°	1945	1949	1942
15°	1927	1930	1919
20°	1901	1900	1890
25°	1872	1868	1854
30°	1836	1829	1816
35°	1797	1791	1776
40°	1759	1750	1735
45°	1719	1710	1692
50°	1675	1668	1651
55°	1629	1620	1599
60°	1574	1564	1586
65°	1502	1498	1470
70°	1410	1412	1373
75°	1280	1270	1241
80°	1099	1085	1056
85°	840	832	769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	3.5
10°-20°	389.9	10.0
20°-30°	578.7	14.9
30°-40°	681.2	17.6
40°-50°	692.2	17.8
50°-60°	615.4	15.9
60°-70°	464.2	12.0
70°-80°	257.8	6.6
80°-90°	64.1	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°	1106.2	28.5
0°-40°	1787.3	46.1
0°-60°	3094.9	79.7
0°-90°	3881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3881.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1457	1457	1457	1457	1457	
5°	1448	1451	1452	1450	1446	137
15°	1383	1384	1385	1382	1378	390
25°	1261	1260	1258	1253	1249	580
35°	1094	1095	1090	1084	1082	685
45°	903	903	899	891	889	697
55°	694	689	691	683	682	620
65°	472	469	470	464	462	467
75°	246	243	244	242	239	261
85°	54	53	54	52	50	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1457.1	1457.1	1457.1	1457.1	1457.1
2.5°	1453.4	1456.1	1458.0	1455.7	1455.2
5°	1448.3	1450.6	1452.4	1450.1	1446.4
7.5°	1438.0	1440.8	1442.2	1439.9	1434.8
10°	1423.6	1426.4	1426.8	1424.6	1421.7
12.5°	1405.9	1407.8	1407.8	1405.9	1402.7
15°	1383.1	1384.5	1385.4	1382.2	1378.0
17.5°	1357.1	1359.3	1358.5	1353.4	1351.5
20°	1327.8	1329.6	1327.3	1324.0	1319.8
22.5°	1295.6	1296.1	1294.2	1290.5	1286.3
25°	1261.2	1260.3	1258.4	1252.8	1248.6
27.5°	1221.2	1223.0	1218.3	1213.2	1210.5
30°	1181.6	1182.0	1177.4	1170.9	1168.6
32.5°	1139.3	1138.3	1135.1	1128.1	1124.4
35°	1094.1	1094.6	1090.3	1083.9	1081.5
37.5°	1050.3	1047.6	1044.3	1036.9	1035.4
40°	1001.5	1001.0	996.4	989.8	987.6
42.5°	952.6	952.2	948.4	942.0	940.1
45°	903.3	903.3	898.6	891.2	889.3
47.5°	853.0	851.2	847.9	841.4	839.1
50°	800.0	798.6	796.7	789.3	788.8
52.5°	747.9	746.9	743.7	737.2	733.5
55°	694.3	689.2	690.6	683.2	681.8
57.5°	639.4	634.3	637.1	630.6	627.8
60°	585.0	579.9	581.3	577.0	589.2
62.5°	529.2	525.9	525.9	535.7	518.0
65°	471.9	469.1	470.5	464.5	461.6
67.5°	415.6	411.4	420.2	409.1	404.4
70°	358.3	355.5	358.8	352.3	349.0
72.5°	301.6	299.2	298.3	296.0	293.2
75°	246.2	242.9	244.3	242.4	238.7
77.5°	192.2	191.2	190.8	188.5	185.7
80°	141.9	141.0	140.0	138.2	136.3
82.5°	94.9	94.0	93.6	92.6	92.2
85°	54.4	53.1	53.9	51.7	49.8
87.5°	20.5	20.0	21.0	19.1	17.7
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)