

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: P735731

Luminaire Tested: **24APR-58-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735731  
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-CP250-4000K  
Description: 2X4 5800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 4000K CCT, AND CP250 LENS

Light Source: -  
Ballast/Driver: -

**Summary**

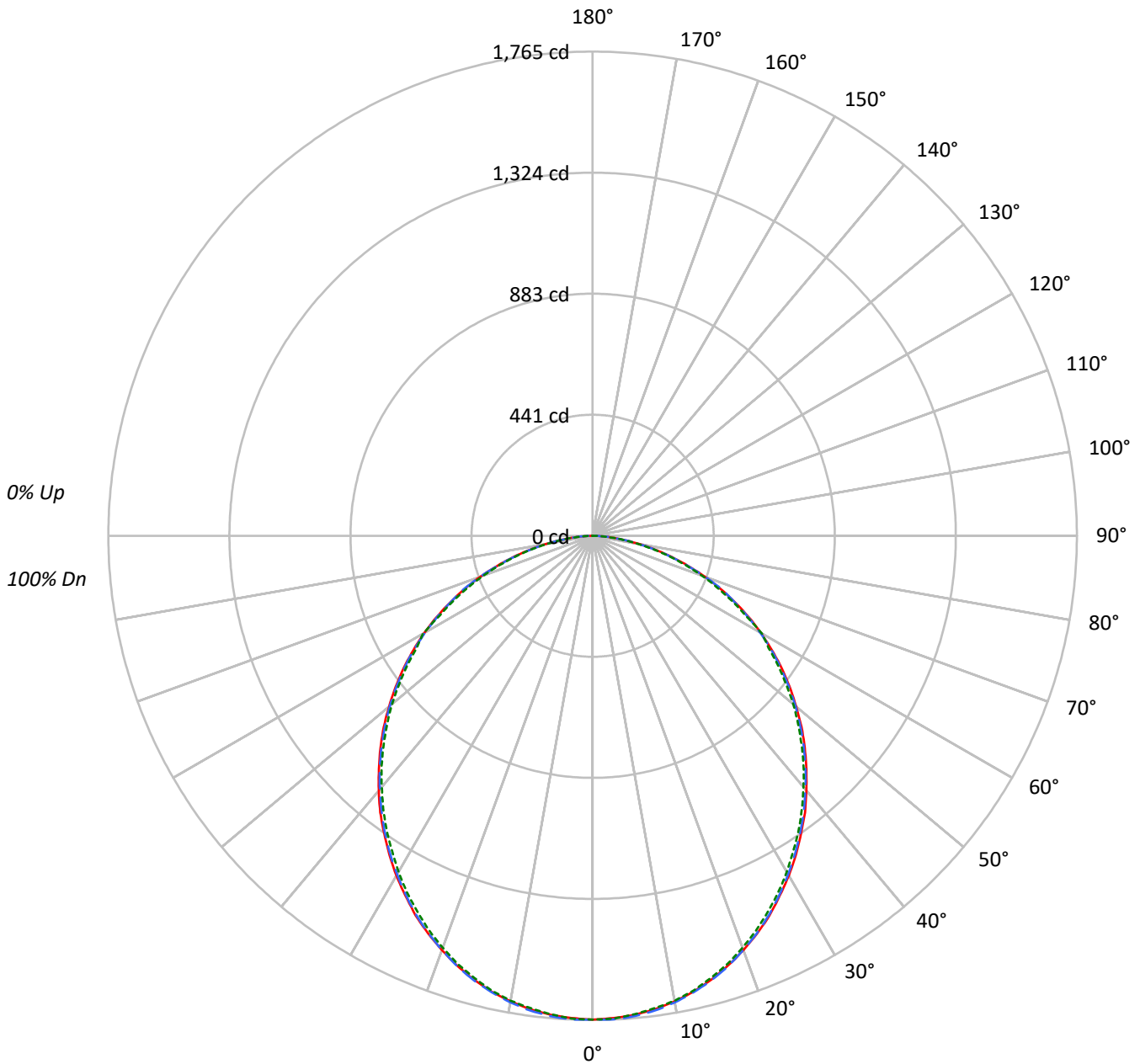
Lumens per Lamp: N/A  
Luminaire Lumens: 4698.0 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P735731

CATALOG NUMBER: 24APR-58-B2750-W2D-CP250-4000K

### 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°	2373	2373	2373
5°	2368	2375	2365
10°	2354	2360	2351
15°	2332	2336	2324
20°	2301	2301	2288
25°	2267	2261	2244
30°	2222	2214	2198
35°	2175	2168	2150
40°	2129	2118	2100
45°	2081	2070	2048
50°	2027	2019	1999
55°	1972	1961	1936
60°	1905	1893	1919
65°	1819	1813	1779
70°	1707	1709	1662
75°	1549	1537	1502
80°	1331	1313	1278
85°	1017	1008	931



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.6	3.5
10°-20°	471.9	10.0
20°-30°	700.5	14.9
30°-40°	824.5	17.6
40°-50°	837.9	17.8
50°-60°	744.9	15.9
60°-70°	561.9	12.0
70°-80°	312.1	6.6
80°-90°	77.6	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°	1339.0	28.5
0°-40°	2163.6	46.1
0°-60°	3746.4	79.7
0°-90°	4698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4698.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1753	1756	1758	1755	1751	166
15°	1674	1676	1677	1673	1668	472
25°	1527	1526	1523	1517	1512	703
35°	1324	1325	1320	1312	1309	829
45°	1094	1094	1088	1079	1076	843
55°	840	834	836	827	825	751
65°	571	568	570	562	559	566
75°	298	294	296	294	289	316
85°	66	64	65	63	60	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1763.9	1763.9	1763.9	1763.9	1763.9
2.5°	1759.3	1762.7	1764.9	1762.2	1761.6
5°	1753.2	1755.9	1758.2	1755.4	1750.9
7.5°	1740.7	1744.1	1745.8	1743.0	1736.8
10°	1723.3	1726.7	1727.2	1724.4	1721.0
12.5°	1701.9	1704.1	1704.1	1701.9	1698.0
15°	1674.2	1676.0	1677.1	1673.2	1668.1
17.5°	1642.8	1645.5	1644.4	1638.2	1636.0
20°	1607.3	1609.5	1606.7	1602.8	1597.7
22.5°	1568.3	1568.9	1566.7	1562.2	1557.1
25°	1526.7	1525.6	1523.3	1516.6	1511.5
27.5°	1478.2	1480.5	1474.8	1468.6	1465.3
30°	1430.4	1430.9	1425.3	1417.3	1414.6
32.5°	1379.1	1377.9	1374.0	1365.6	1361.1
35°	1324.4	1325.0	1319.9	1312.0	1309.2
37.5°	1271.4	1268.1	1264.2	1255.2	1253.4
40°	1212.3	1211.7	1206.1	1198.2	1195.4
42.5°	1153.2	1152.6	1148.1	1140.2	1138.0
45°	1093.5	1093.5	1087.8	1078.8	1076.5
47.5°	1032.6	1030.3	1026.4	1018.6	1015.7
50°	968.4	966.7	964.4	955.4	954.8
52.5°	905.3	904.1	900.2	892.4	887.9
55°	840.5	834.3	836.0	827.0	825.3
57.5°	774.0	767.8	771.2	763.3	760.0
60°	708.1	702.0	703.6	698.5	713.2
62.5°	640.6	636.6	636.6	648.4	627.0
65°	571.2	567.8	569.6	562.2	558.8
67.5°	503.1	498.0	508.7	495.2	489.6
70°	433.8	430.3	434.4	426.4	422.5
72.5°	365.0	362.2	361.1	358.3	354.9
75°	298.0	294.1	295.7	293.5	289.0
77.5°	232.7	231.5	231.0	228.2	224.7
80°	171.8	170.7	169.5	167.3	165.0
82.5°	114.9	113.8	113.2	112.1	111.6
85°	65.9	64.2	65.3	62.6	60.3
87.5°	24.8	24.2	25.4	23.1	21.4
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)