

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: P735725

Luminaire Tested: **24APR-58-B2750-W2D-CP125-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P735725  
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-CP125-3500K  
Description: 2X4 5800 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT, AND CP125 LENS

Light Source: -  
Ballast/Driver: -

**Summary**

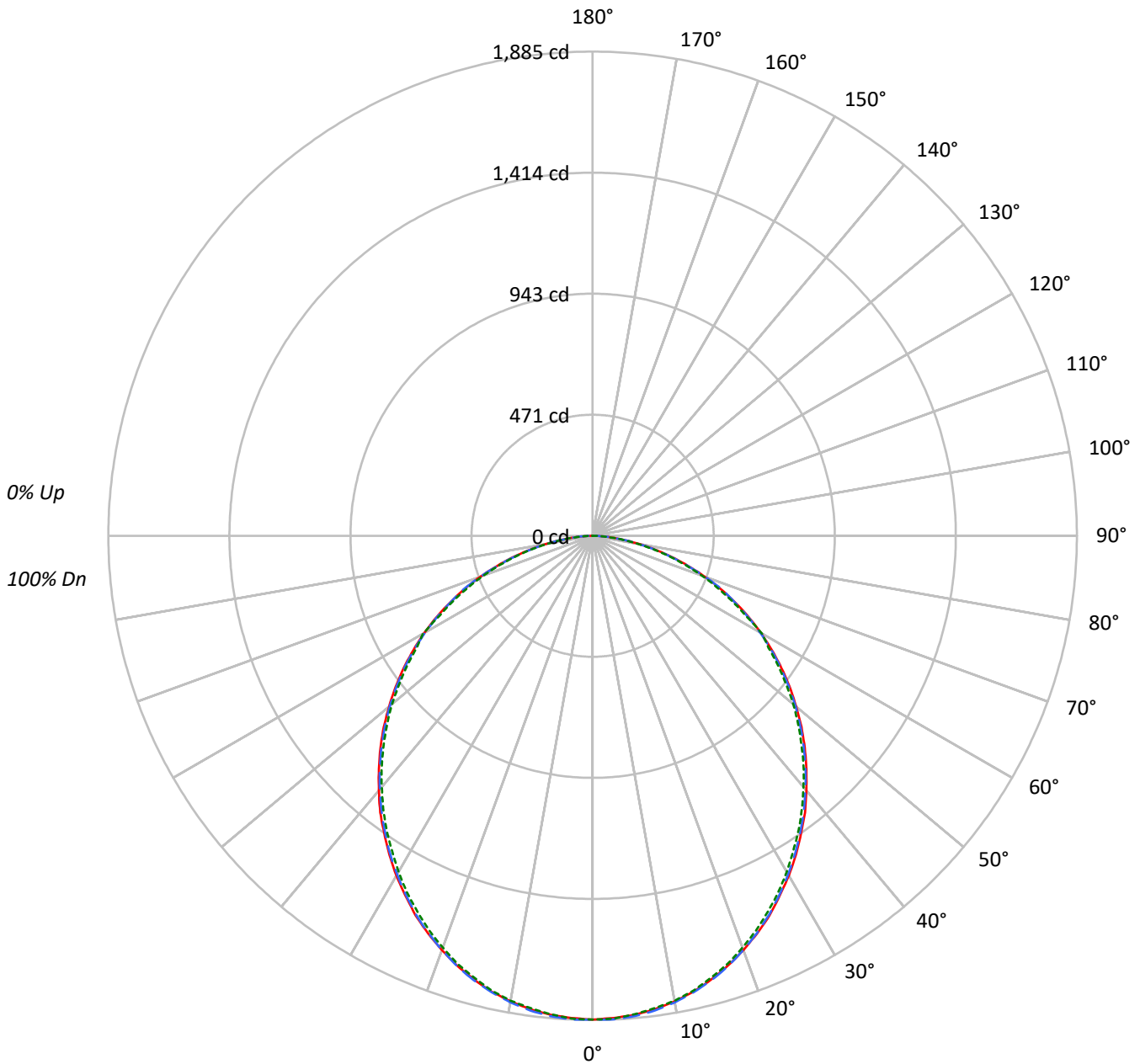
Lumens per Lamp: N/A  
Luminaire Lumens: 5017.0 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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: P735725

CATALOG NUMBER: 24APR-58-B2750-W2D-CP125-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P735725

CATALOG NUMBER: 24APR-58-B2750-W2D-CP125-3500K

**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°	2534	2534	2534
5°	2529	2536	2525
10°	2514	2520	2511
15°	2490	2495	2481
20°	2458	2457	2443
25°	2420	2415	2396
30°	2373	2365	2347
35°	2323	2315	2296
40°	2274	2262	2242
45°	2222	2210	2187
50°	2165	2156	2134
55°	2106	2094	2067
60°	2035	2022	2050
65°	1942	1937	1900
70°	1822	1825	1775
75°	1654	1642	1604
80°	1422	1402	1365
85°	1087	1076	994



TEST NUMBER: P735725

CATALOG NUMBER: 24APR-58-B2750-W2D-CP125-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.9	3.5
10°-20°	504.0	10.0
20°-30°	748.1	14.9
30°-40°	880.5	17.6
40°-50°	894.8	17.8
50°-60°	795.5	15.9
60°-70°	600.0	12.0
70°-80°	333.3	6.6
80°-90°	82.9	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°	1429.9	28.5
0°-40°	2310.5	46.1
0°-60°	4000.8	79.7
0°-90°	5017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5017.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1884	1884	1884	1884	1884	
5°	1872	1875	1878	1875	1870	178
15°	1788	1790	1791	1787	1781	504
25°	1630	1629	1627	1620	1614	750
35°	1414	1415	1410	1401	1398	885
45°	1168	1168	1162	1152	1150	901
55°	898	891	893	883	881	802
65°	610	606	608	600	597	604
75°	318	314	316	313	309	337
85°	70	69	70	67	64	85
90°	0	0	0	0	0	



TEST NUMBER: P735725

CATALOG NUMBER: 24APR-58-B2750-W2D-CP125-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1883.6	1883.6	1883.6	1883.6	1883.6
2.5°	1878.8	1882.4	1884.8	1881.8	1881.2
5°	1872.2	1875.1	1877.5	1874.6	1869.8
7.5°	1858.9	1862.6	1864.4	1861.3	1854.7
10°	1840.3	1843.9	1844.5	1841.5	1837.9
12.5°	1817.4	1819.9	1819.9	1817.4	1813.3
15°	1787.9	1789.8	1791.0	1786.8	1781.3
17.5°	1754.3	1757.2	1756.1	1749.5	1747.1
20°	1716.4	1718.8	1715.8	1711.6	1706.1
22.5°	1674.8	1675.5	1673.1	1668.2	1662.8
25°	1630.3	1629.2	1626.8	1619.5	1614.1
27.5°	1578.6	1581.0	1574.9	1568.3	1564.8
30°	1527.5	1528.0	1522.1	1513.6	1510.6
32.5°	1472.7	1471.5	1467.3	1458.3	1453.5
35°	1414.3	1414.9	1409.5	1401.1	1398.1
37.5°	1357.8	1354.2	1350.0	1340.4	1338.5
40°	1294.6	1294.0	1288.0	1279.6	1276.6
42.5°	1231.5	1230.9	1226.0	1217.7	1215.3
45°	1167.7	1167.7	1161.6	1152.0	1149.6
47.5°	1102.7	1100.3	1096.1	1087.7	1084.7
50°	1034.1	1032.3	1029.9	1020.3	1019.7
52.5°	966.8	965.5	961.3	953.0	948.1
55°	897.6	891.0	892.8	883.1	881.3
57.5°	826.6	820.0	823.5	815.2	811.6
60°	756.2	749.6	751.4	746.0	761.7
62.5°	684.1	679.8	679.8	692.4	669.6
65°	610.0	606.4	608.3	600.4	596.7
67.5°	537.3	531.8	543.2	528.8	522.8
70°	463.2	459.6	463.9	455.4	451.2
72.5°	389.8	386.8	385.6	382.6	379.0
75°	318.2	314.0	315.8	313.4	308.6
77.5°	248.5	247.2	246.7	243.7	240.0
80°	183.5	182.3	181.0	178.6	176.2
82.5°	122.7	121.6	120.9	119.7	119.2
85°	70.4	68.6	69.7	66.8	64.4
87.5°	26.5	25.9	27.1	24.7	22.8
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)