

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: P735755

Luminaire Tested: **24APR-85-B2750-W2D-CP125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735755
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-85-B2750-W2D-CP125-3500K
Description: 2X4 8500 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

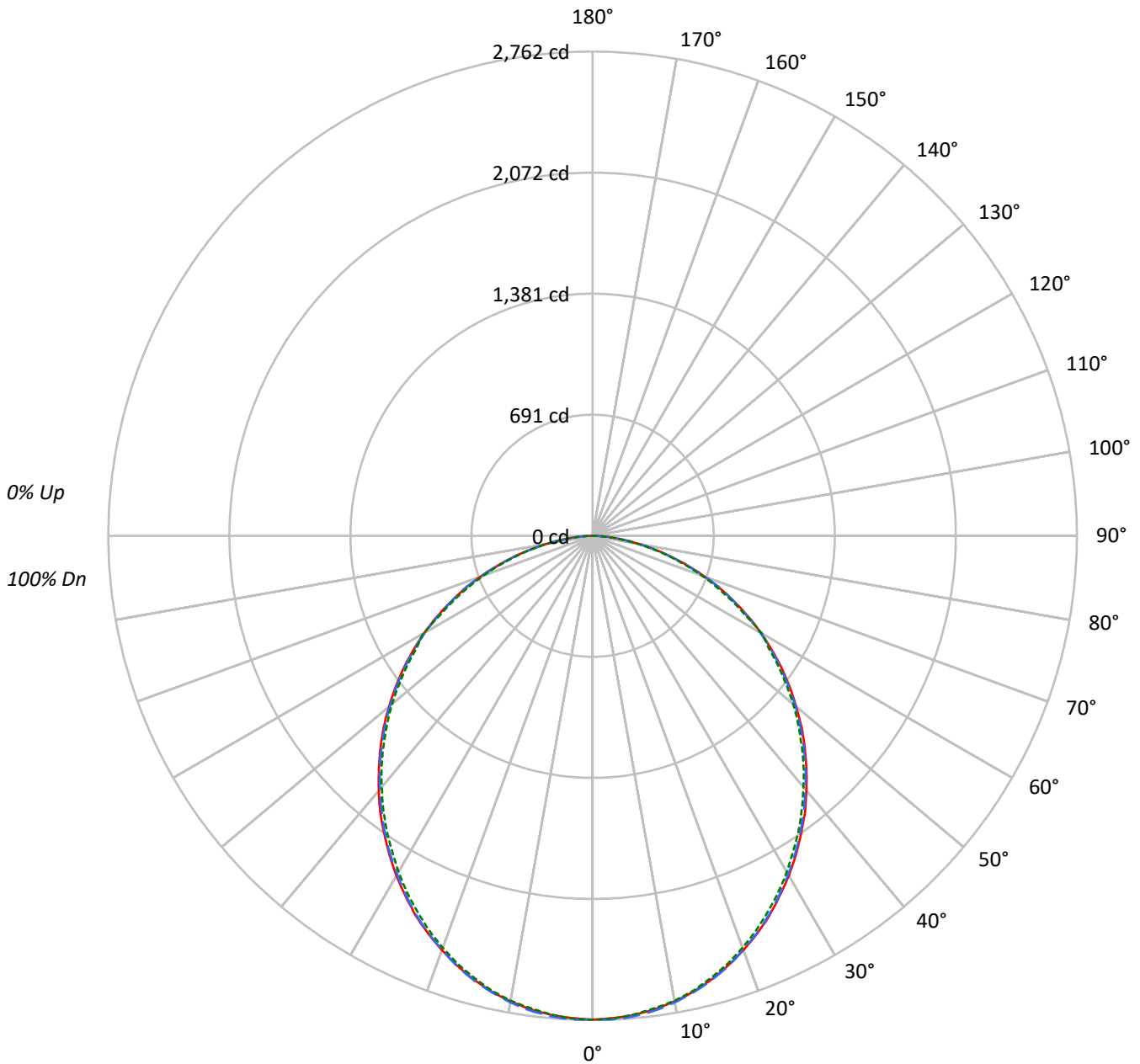
Lumens per Lamp: N/A
Luminaire Lumens: 7352.0 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86
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: P735755

CATALOG NUMBER: 24APR-85-B2750-W2D-CP125-3500K

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°	3714	3714	3714
5°	3706	3716	3701
10°	3684	3693	3680
15°	3650	3656	3636
20°	3601	3600	3580
25°	3547	3539	3511
30°	3478	3465	3439
35°	3404	3393	3365
40°	3332	3315	3286
45°	3256	3239	3206
50°	3172	3159	3128
55°	3085	3069	3030
60°	2982	2963	3003
65°	2846	2838	2784
70°	2670	2674	2601
75°	2424	2406	2351
80°	2083	2056	2001
85°	1592	1578	1457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.7	3.5
10°-20°	738.5	10.0
20°-30°	1096.2	14.9
30°-40°	1290.3	17.6
40°-50°	1311.3	17.8
50°-60°	1165.7	15.9
60°-70°	879.3	12.0
70°-80°	488.4	6.6
80°-90°	121.4	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°	2095.5	28.5
0°-40°	3385.8	46.1
0°-60°	5862.8	79.7
0°-90°	7352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7352.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2760	2760	2760	2760	2760	
5°	2744	2748	2751	2747	2740	260
15°	2620	2623	2624	2618	2610	739
25°	2389	2387	2384	2373	2365	1099
35°	2073	2074	2066	2053	2049	1298
45°	1711	1711	1702	1688	1685	1320
55°	1315	1306	1308	1294	1292	1175
65°	894	889	891	880	874	885
75°	466	460	463	459	452	494
85°	103	100	102	98	94	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2760.3	2760.3	2760.3	2760.3	2760.3
2.5°	2753.2	2758.5	2762.0	2757.7	2756.8
5°	2743.6	2747.9	2751.4	2747.1	2740.0
7.5°	2724.1	2729.4	2732.1	2727.6	2717.9
10°	2696.8	2702.1	2702.9	2698.6	2693.2
12.5°	2663.3	2666.8	2666.8	2663.3	2657.2
15°	2620.0	2622.8	2624.5	2618.4	2610.4
17.5°	2570.8	2575.1	2573.4	2563.7	2560.2
20°	2515.2	2518.8	2514.3	2508.2	2500.2
22.5°	2454.3	2455.2	2451.7	2444.7	2436.7
25°	2389.1	2387.4	2383.9	2373.3	2365.3
27.5°	2313.3	2316.8	2307.9	2298.3	2293.1
30°	2238.4	2239.2	2230.5	2218.0	2213.7
32.5°	2158.2	2156.3	2150.2	2137.0	2129.9
35°	2072.6	2073.5	2065.5	2053.2	2048.8
37.5°	1989.7	1984.5	1978.3	1964.2	1961.5
40°	1897.2	1896.3	1887.5	1875.1	1870.8
42.5°	1804.6	1803.7	1796.7	1784.4	1780.9
45°	1711.2	1711.2	1702.3	1688.2	1684.7
47.5°	1615.9	1612.4	1606.2	1594.0	1589.5
50°	1515.4	1512.8	1509.3	1495.2	1494.2
52.5°	1416.7	1414.9	1408.8	1396.5	1389.4
55°	1315.3	1305.6	1308.3	1294.1	1291.5
57.5°	1211.3	1201.6	1206.8	1194.6	1189.3
60°	1108.2	1098.5	1101.1	1093.1	1116.1
62.5°	1002.4	996.2	996.2	1014.7	981.3
65°	894.0	888.6	891.4	879.8	874.5
67.5°	787.3	779.3	796.1	774.9	766.1
70°	678.8	673.5	679.8	667.3	661.2
72.5°	571.3	566.8	565.1	560.7	555.5
75°	466.3	460.2	462.8	459.3	452.2
77.5°	364.1	362.3	361.5	357.1	351.7
80°	268.8	267.1	265.3	261.8	258.2
82.5°	179.8	178.1	177.2	175.4	174.6
85°	103.1	100.5	102.2	97.9	94.4
87.5°	38.8	37.9	39.7	36.2	33.5
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)