

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: P735760

Luminaire Tested: **24APR-85-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735760
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-CP250-3500K
Description: 2X4 8500 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

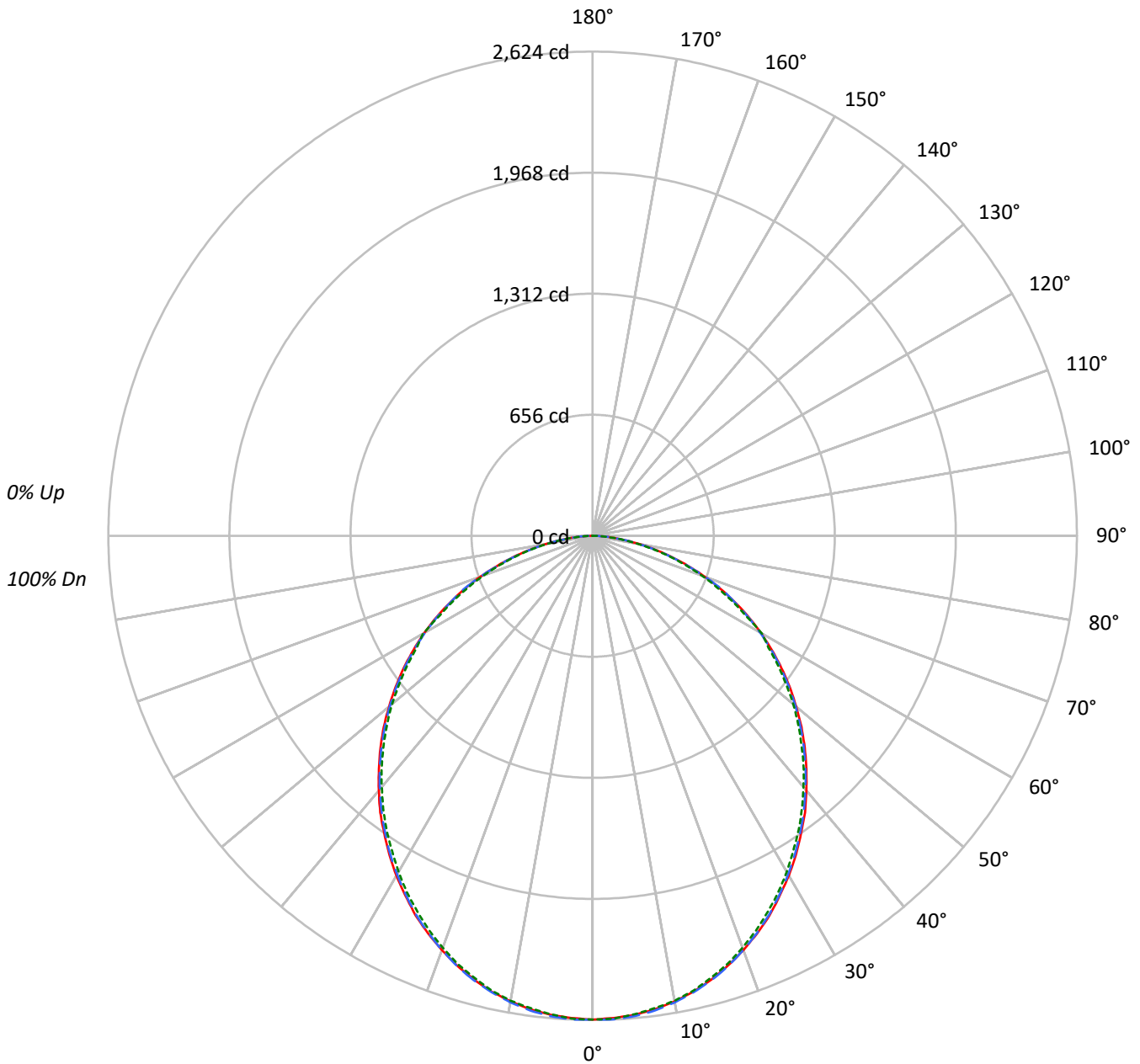
Lumens per Lamp: N/A
Luminaire Lumens: 6984.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	3528	3528	3528
5°	3520	3530	3516
10°	3500	3508	3495
15°	3467	3473	3454
20°	3421	3420	3401
25°	3369	3362	3336
30°	3304	3292	3267
35°	3234	3223	3197
40°	3165	3149	3121
45°	3093	3077	3045
50°	3013	3001	2971
55°	2931	2915	2878
60°	2833	2815	2853
65°	2704	2696	2645
70°	2537	2540	2471
75°	2303	2285	2233
80°	1979	1953	1901
85°	1513	1499	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.7	3.5
10°-20°	701.6	10.0
20°-30°	1041.4	14.9
30°-40°	1225.8	17.6
40°-50°	1245.7	17.8
50°-60°	1107.4	15.9
60°-70°	835.3	12.0
70°-80°	463.9	6.6
80°-90°	115.4	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°	1990.6	28.5
0°-40°	3216.3	46.1
0°-60°	5569.4	79.7
0°-90°	6984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2622	2622	2622	2622	2622	
5°	2606	2610	2614	2610	2603	247
15°	2489	2492	2493	2487	2480	702
25°	2270	2268	2265	2254	2247	1044
35°	1969	1970	1962	1950	1946	1233
45°	1626	1626	1617	1604	1600	1254
55°	1250	1240	1243	1229	1227	1116
65°	849	844	847	836	831	841
75°	443	437	440	436	430	470
85°	98	96	97	93	90	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2622.1	2622.1	2622.1	2622.1	2622.1
2.5°	2615.4	2620.4	2623.7	2619.6	2618.8
5°	2606.2	2610.3	2613.7	2609.6	2602.9
7.5°	2587.7	2592.8	2595.3	2591.1	2581.9
10°	2561.8	2566.9	2567.6	2563.5	2558.4
12.5°	2530.0	2533.4	2533.4	2530.0	2524.2
15°	2488.9	2491.5	2493.1	2487.3	2479.7
17.5°	2442.1	2446.2	2444.6	2435.4	2432.1
20°	2389.3	2392.7	2388.5	2382.6	2375.1
22.5°	2331.5	2332.4	2329.0	2322.3	2314.7
25°	2269.5	2267.9	2264.6	2254.5	2246.9
27.5°	2197.5	2200.9	2192.4	2183.2	2178.3
30°	2126.4	2127.1	2118.8	2107.0	2102.9
32.5°	2050.2	2048.4	2042.6	2030.0	2023.3
35°	1968.8	1969.7	1962.1	1950.5	1946.2
37.5°	1890.1	1885.2	1879.3	1865.9	1863.3
40°	1802.2	1801.3	1793.0	1781.2	1777.1
42.5°	1714.3	1713.4	1706.7	1695.1	1691.7
45°	1625.5	1625.5	1617.1	1603.7	1600.3
47.5°	1535.0	1531.7	1525.8	1514.2	1510.0
50°	1439.6	1437.1	1433.7	1420.3	1419.4
52.5°	1345.8	1344.1	1338.2	1326.6	1319.9
55°	1249.5	1240.3	1242.8	1229.4	1226.9
57.5°	1150.7	1141.5	1146.4	1134.8	1129.8
60°	1052.7	1043.5	1046.0	1038.4	1060.3
62.5°	952.3	946.3	946.3	963.9	932.2
65°	849.2	844.1	846.7	835.8	830.7
67.5°	747.9	740.3	756.2	736.1	727.8
70°	644.9	639.8	645.7	633.9	628.1
72.5°	542.7	538.4	536.8	532.6	527.7
75°	443.0	437.1	439.6	436.3	429.6
77.5°	345.9	344.1	343.4	339.2	334.1
80°	255.4	253.8	252.0	248.7	245.3
82.5°	170.8	169.2	168.4	166.6	165.9
85°	98.0	95.5	97.1	93.0	89.6
87.5°	36.9	36.0	37.8	34.4	31.8
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)