

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: P735761

Luminaire Tested: **24APR-85-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735761
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-CP250-4000K
Description: 2X4 8500 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 4000K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

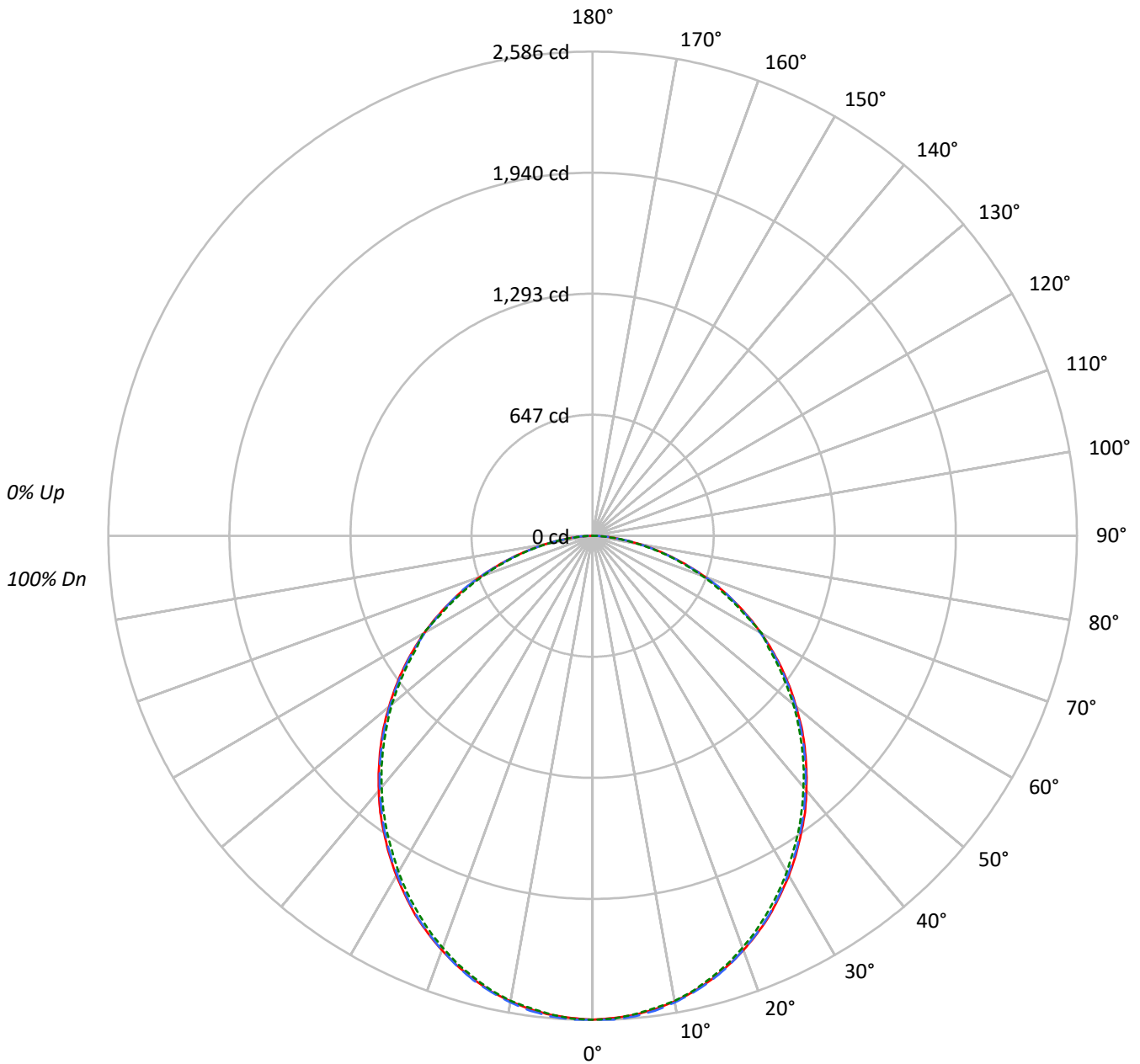
Lumens per Lamp: N/A
Luminaire Lumens: 6884.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3478	3478	3478
5°	3470	3479	3465
10°	3450	3458	3445
15°	3417	3423	3405
20°	3372	3371	3352
25°	3321	3314	3288
30°	3256	3245	3220
35°	3188	3177	3151
40°	3120	3104	3077
45°	3049	3033	3001
50°	2970	2958	2929
55°	2889	2874	2837
60°	2792	2774	2812
65°	2665	2657	2607
70°	2500	2504	2436
75°	2270	2253	2201
80°	1950	1925	1874
85°	1491	1477	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.1	3.5
10°-20°	691.5	10.0
20°-30°	1026.4	14.9
30°-40°	1208.2	17.6
40°-50°	1227.8	17.8
50°-60°	1091.5	15.9
60°-70°	823.3	12.0
70°-80°	457.3	6.6
80°-90°	113.7	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°	1962.1	28.5
0°-40°	3170.3	46.1
0°-60°	5489.6	79.7
0°-90°	6884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2585	2585	2585	2585	2585	
5°	2569	2573	2576	2572	2566	244
15°	2453	2456	2457	2452	2444	692
25°	2237	2236	2232	2222	2215	1029
35°	1941	1942	1934	1922	1918	1215
45°	1602	1602	1594	1581	1577	1236
55°	1232	1222	1225	1212	1209	1100
65°	837	832	835	824	819	829
75°	437	431	433	430	423	463
85°	97	94	96	92	88	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2584.6	2584.6	2584.6	2584.6	2584.6
2.5°	2578.0	2582.9	2586.2	2582.1	2581.3
5°	2568.9	2572.9	2576.2	2572.2	2565.6
7.5°	2550.7	2555.7	2558.1	2554.0	2544.9
10°	2525.1	2530.1	2530.8	2526.8	2521.8
12.5°	2493.8	2497.1	2497.1	2493.8	2488.0
15°	2453.3	2455.8	2457.4	2451.7	2444.2
17.5°	2407.1	2411.2	2409.6	2400.5	2397.2
20°	2355.1	2358.4	2354.3	2348.5	2341.1
22.5°	2298.1	2299.0	2295.7	2289.0	2281.6
25°	2237.0	2235.5	2232.1	2222.2	2214.8
27.5°	2166.1	2169.4	2161.0	2152.0	2147.1
30°	2095.9	2096.7	2088.5	2076.8	2072.8
32.5°	2020.8	2019.1	2013.3	2001.0	1994.4
35°	1940.6	1941.5	1934.0	1922.5	1918.4
37.5°	1863.0	1858.2	1852.4	1839.2	1836.6
40°	1776.4	1775.5	1767.4	1755.7	1751.7
42.5°	1689.8	1688.9	1682.3	1670.8	1667.5
45°	1602.3	1602.3	1593.9	1580.7	1577.4
47.5°	1513.0	1509.7	1504.0	1492.5	1488.3
50°	1418.9	1416.5	1413.2	1400.0	1399.1
52.5°	1326.6	1324.8	1319.1	1307.6	1301.0
55°	1231.6	1222.5	1225.0	1211.8	1209.3
57.5°	1134.2	1125.1	1130.0	1118.5	1113.6
60°	1037.6	1028.6	1031.0	1023.5	1045.1
62.5°	938.6	932.7	932.7	950.1	918.8
65°	837.1	832.0	834.6	823.8	818.8
67.5°	737.2	729.7	745.4	725.6	717.4
70°	635.6	630.6	636.5	624.8	619.1
72.5°	534.9	530.7	529.2	525.0	520.1
75°	436.6	430.9	433.3	430.0	423.4
77.5°	340.9	339.2	338.5	334.3	329.3
80°	251.7	250.1	248.4	245.1	241.8
82.5°	168.4	166.8	165.9	164.2	163.5
85°	96.6	94.1	95.7	91.7	88.4
87.5°	36.3	35.5	37.2	33.9	31.3
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)