

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: P735751

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735751
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-4000K
Description: 2X4 8500 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 4000K CCT

Light Source: -
Ballast/Driver: -

Summary

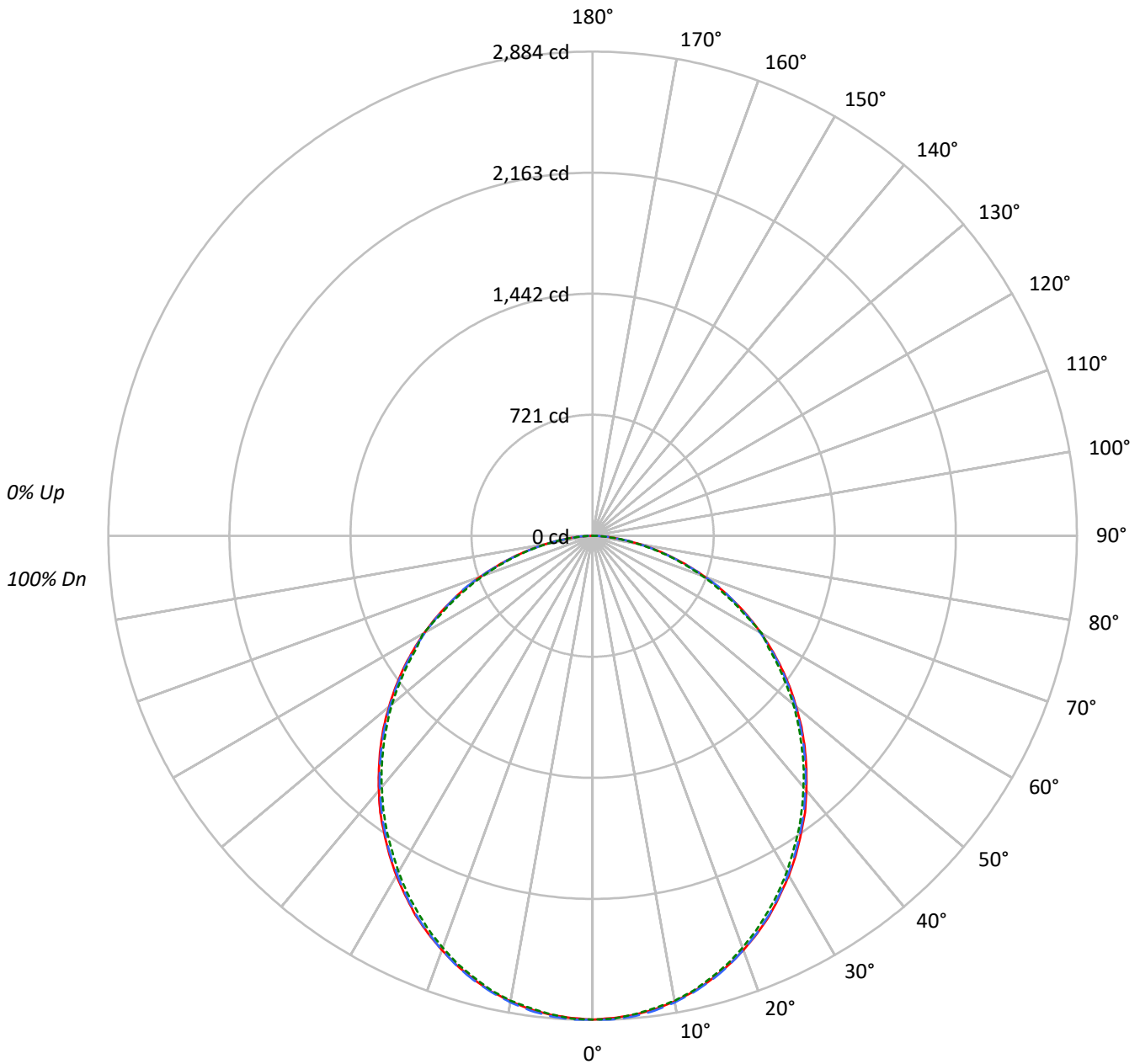
Lumens per Lamp: N/A
Luminaire Lumens: 7676.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3878	3878	3878
5°	3869	3880	3864
10°	3847	3856	3842
15°	3810	3817	3796
20°	3760	3759	3738
25°	3703	3695	3666
30°	3631	3618	3591
35°	3554	3542	3514
40°	3479	3461	3431
45°	3400	3382	3347
50°	3312	3298	3266
55°	3221	3204	3163
60°	3113	3094	3136
65°	2972	2963	2907
70°	2788	2792	2716
75°	2531	2512	2454
80°	2175	2146	2089
85°	1663	1647	1521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.2	3.5
10°-20°	771.1	10.0
20°-30°	1144.5	14.9
30°-40°	1347.2	17.6
40°-50°	1369.1	17.8
50°-60°	1217.1	15.9
60°-70°	918.1	12.0
70°-80°	509.9	6.6
80°-90°	126.8	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°	2187.8	28.5
0°-40°	3535.0	46.1
0°-60°	6121.2	79.7
0°-90°	7676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2882	2882	2882	2882	2882	
5°	2864	2869	2873	2868	2861	272
15°	2736	2738	2740	2734	2725	771
25°	2494	2493	2489	2478	2470	1148
35°	2164	2165	2156	2144	2139	1355
45°	1787	1787	1777	1763	1759	1378
55°	1373	1363	1366	1351	1348	1227
65°	933	928	931	919	913	924
75°	487	480	483	480	472	516
85°	108	105	107	102	98	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2881.9	2881.9	2881.9	2881.9	2881.9
2.5°	2874.6	2880.0	2883.7	2879.2	2878.3
5°	2864.5	2869.0	2872.6	2868.2	2860.8
7.5°	2844.1	2849.7	2852.5	2847.8	2837.7
10°	2815.6	2821.2	2822.0	2817.5	2811.9
12.5°	2780.7	2784.4	2784.4	2780.7	2774.3
15°	2735.5	2738.4	2740.2	2733.7	2725.4
17.5°	2684.1	2688.6	2686.8	2676.7	2673.0
20°	2626.1	2629.8	2625.1	2618.7	2610.4
22.5°	2562.5	2563.4	2559.8	2552.4	2544.1
25°	2494.4	2492.6	2489.0	2477.9	2469.6
27.5°	2415.3	2418.9	2409.7	2399.6	2394.1
30°	2337.1	2337.9	2328.7	2315.8	2311.3
32.5°	2253.3	2251.4	2245.0	2231.2	2223.8
35°	2163.9	2164.9	2156.5	2143.7	2139.1
37.5°	2077.4	2071.9	2065.5	2050.8	2047.9
40°	1980.8	1979.8	1970.7	1957.7	1953.2
42.5°	1884.2	1883.2	1875.8	1863.0	1859.3
45°	1786.6	1786.6	1777.3	1762.6	1758.9
47.5°	1687.1	1683.4	1677.0	1664.2	1659.6
50°	1582.2	1579.5	1575.8	1561.0	1560.1
52.5°	1479.2	1477.3	1470.8	1458.0	1450.7
55°	1373.3	1363.2	1365.9	1351.2	1348.4
57.5°	1264.7	1254.6	1260.0	1247.2	1241.8
60°	1157.0	1146.9	1149.6	1141.3	1165.3
62.5°	1046.6	1040.1	1040.1	1059.4	1024.5
65°	933.4	927.8	930.6	918.6	913.0
67.5°	822.0	813.7	831.1	809.0	799.9
70°	708.7	703.1	709.7	696.7	690.3
72.5°	596.4	591.8	590.0	585.4	579.9
75°	486.9	480.5	483.2	479.5	472.1
77.5°	380.2	378.2	377.4	372.8	367.2
80°	280.7	278.9	277.0	273.3	269.6
82.5°	187.8	186.0	185.0	183.1	182.3
85°	107.7	104.9	106.7	102.2	98.5
87.5°	40.5	39.6	41.5	37.8	34.9
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)