

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: P735752

Luminaire Tested: **24APR-85-B2750-W2D-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735752
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-5000K
Description: 2X4 8500 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 5000K CCT

Light Source: -
Ballast/Driver: -

Summary

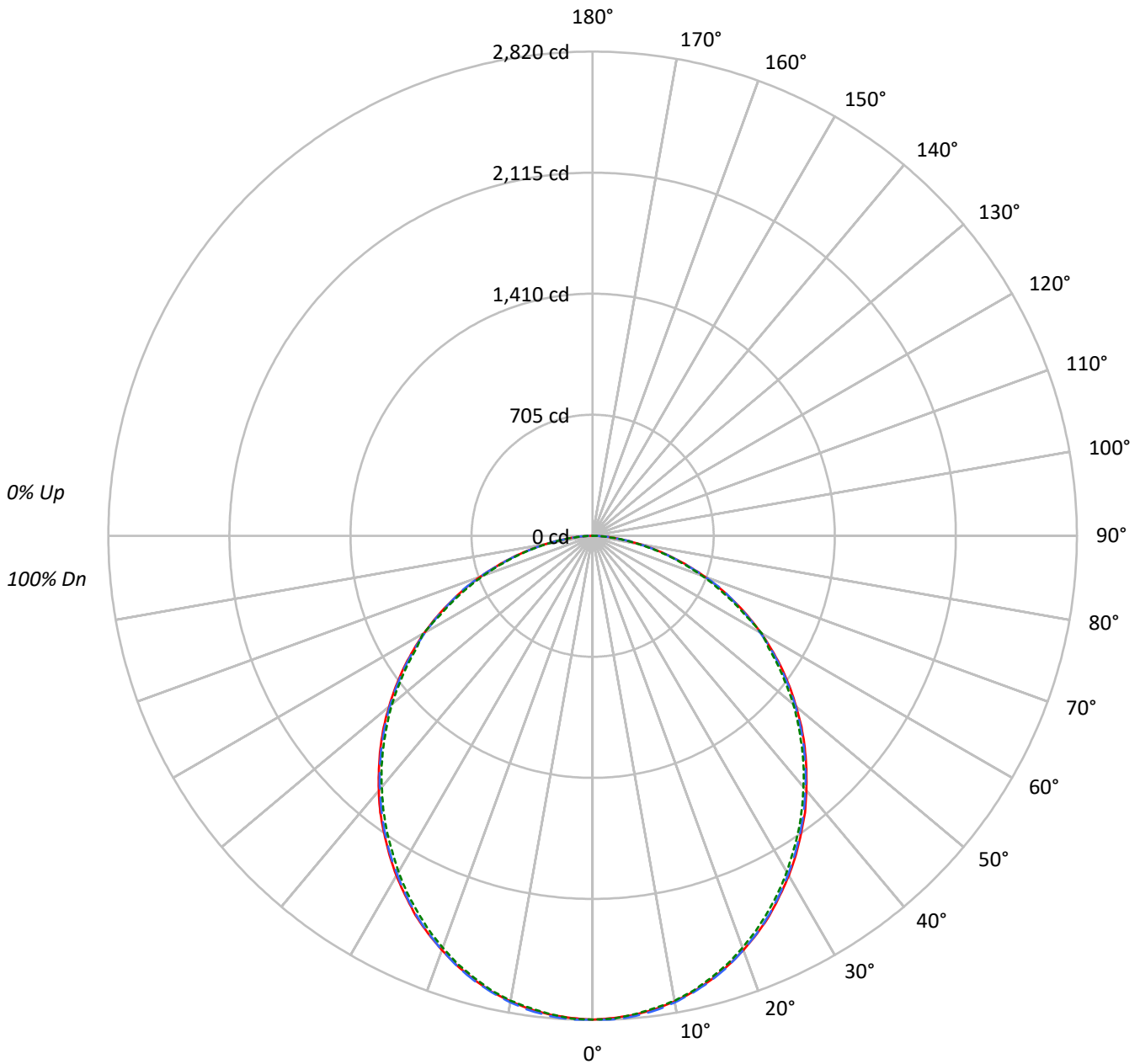
Lumens per Lamp: N/A
Luminaire Lumens: 7506.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3792	3792	3792
5°	3783	3794	3778
10°	3762	3770	3757
15°	3726	3732	3712
20°	3677	3676	3655
25°	3621	3613	3585
30°	3551	3538	3511
35°	3476	3464	3436
40°	3402	3385	3355
45°	3324	3307	3273
50°	3238	3225	3193
55°	3150	3133	3093
60°	3045	3025	3066
65°	2906	2897	2842
70°	2727	2730	2655
75°	2475	2456	2400
80°	2127	2099	2043
85°	1626	1610	1487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.2	3.5
10°-20°	754.0	10.0
20°-30°	1119.2	14.9
30°-40°	1317.4	17.6
40°-50°	1338.8	17.8
50°-60°	1190.1	15.9
60°-70°	897.7	12.0
70°-80°	498.6	6.6
80°-90°	124.0	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°	2139.4	28.5
0°-40°	3456.7	46.1
0°-60°	5985.7	79.7
0°-90°	7506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2818	2818	2818	2818	2818	
5°	2801	2805	2809	2805	2797	266
15°	2675	2678	2680	2673	2665	754
25°	2439	2437	2434	2423	2415	1122
35°	2116	2117	2109	2096	2092	1325
45°	1747	1747	1738	1724	1720	1348
55°	1343	1333	1336	1321	1319	1200
65°	913	907	910	898	893	904
75°	476	470	472	469	462	505
85°	105	103	104	100	96	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2818.1	2818.1	2818.1	2818.1	2818.1
2.5°	2810.9	2816.2	2819.8	2815.4	2814.5
5°	2801.0	2805.4	2809.0	2804.6	2797.4
7.5°	2781.1	2786.6	2789.3	2784.7	2774.9
10°	2753.3	2758.7	2759.5	2755.1	2749.7
12.5°	2719.1	2722.7	2722.7	2719.1	2712.8
15°	2674.9	2677.7	2679.5	2673.2	2665.1
17.5°	2624.6	2629.0	2627.3	2617.4	2613.8
20°	2567.9	2571.5	2567.0	2560.7	2552.6
22.5°	2505.7	2506.7	2503.1	2495.9	2487.7
25°	2439.2	2437.4	2433.8	2423.0	2414.9
27.5°	2361.8	2365.4	2356.3	2346.4	2341.1
30°	2285.3	2286.1	2277.2	2264.5	2260.1
32.5°	2203.4	2201.5	2195.2	2181.8	2174.6
35°	2116.0	2116.9	2108.8	2096.2	2091.7
37.5°	2031.4	2026.1	2019.8	2005.4	2002.6
40°	1936.9	1936.0	1927.0	1914.4	1910.0
42.5°	1842.4	1841.5	1834.3	1821.8	1818.2
45°	1747.0	1747.0	1738.0	1723.5	1719.9
47.5°	1649.8	1646.2	1639.9	1627.4	1622.8
50°	1547.1	1544.5	1540.9	1526.5	1525.5
52.5°	1446.4	1444.5	1438.3	1425.7	1418.5
55°	1342.9	1333.0	1335.7	1321.2	1318.6
57.5°	1236.7	1226.8	1232.1	1219.6	1214.3
60°	1131.4	1121.5	1124.2	1116.0	1139.5
62.5°	1023.4	1017.0	1017.0	1036.0	1001.8
65°	912.7	907.2	910.0	898.3	892.8
67.5°	803.8	795.7	812.7	791.1	782.2
70°	693.1	687.6	694.0	681.3	675.0
72.5°	583.2	578.7	577.0	572.4	567.1
75°	476.1	469.8	472.5	468.9	461.7
77.5°	371.7	369.9	369.1	364.5	359.1
80°	274.5	272.7	270.9	267.3	263.7
82.5°	183.6	181.9	180.9	179.1	178.3
85°	105.3	102.6	104.3	99.9	96.3
87.5°	39.6	38.7	40.6	37.0	34.2
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)