

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: P735753

Luminaire Tested: **24APR-85-B2750-W2D-CP125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735753
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-CP125-2700K
Description: 2X4 8500 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

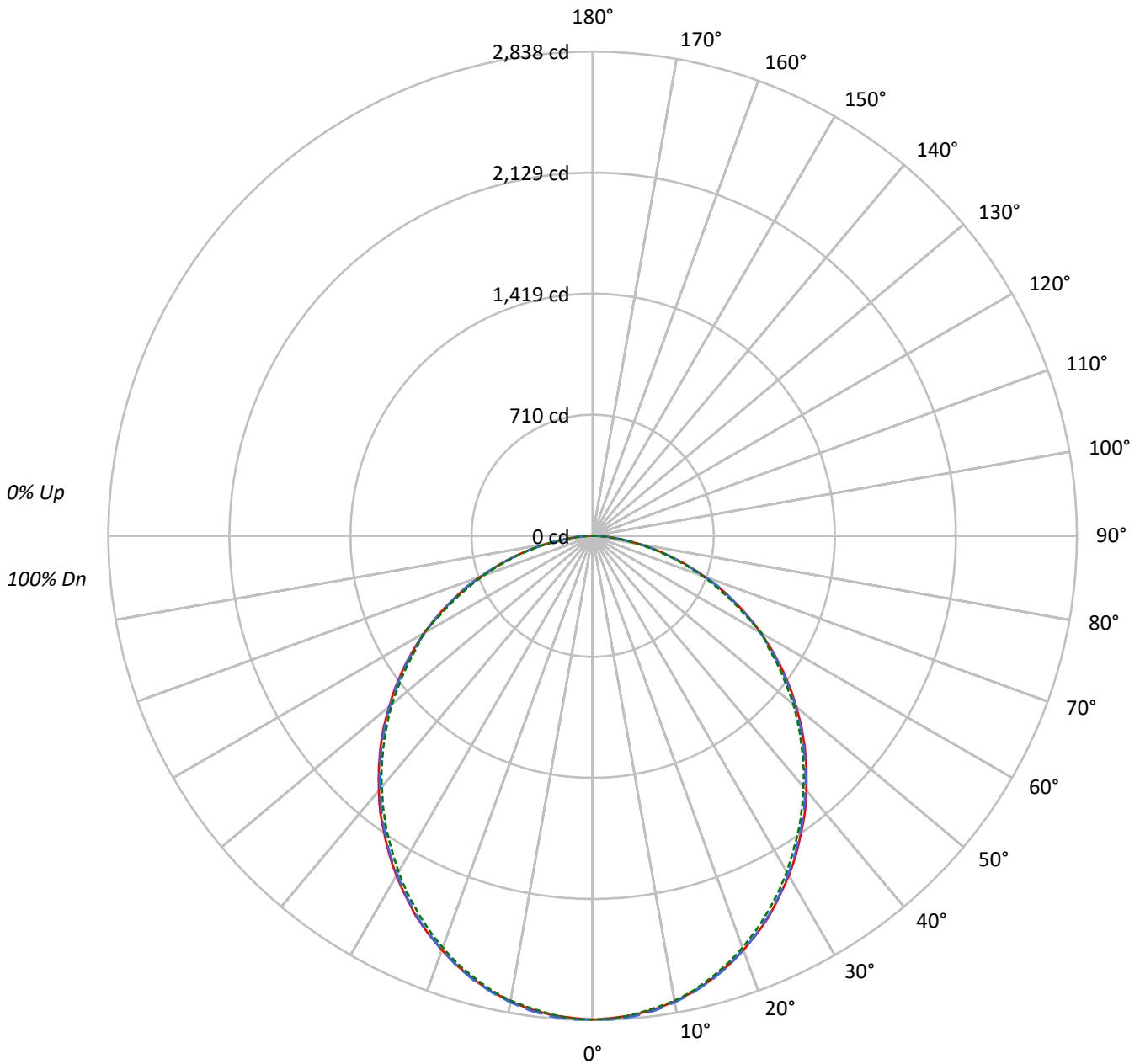
Lumens per Lamp: N/A
Luminaire Lumens: 7553.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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°	3816	3816	3816
5°	3807	3818	3802
10°	3785	3794	3780
15°	3749	3756	3735
20°	3700	3699	3678
25°	3644	3636	3608
30°	3573	3560	3533
35°	3497	3485	3457
40°	3423	3406	3376
45°	3345	3328	3293
50°	3259	3246	3213
55°	3170	3153	3112
60°	3064	3044	3086
65°	2924	2915	2860
70°	2744	2747	2672
75°	2491	2471	2415
80°	2140	2112	2056
85°	1635	1621	1496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.8	3.5
10°-20°	758.7	10.0
20°-30°	1126.2	14.9
30°-40°	1325.6	17.6
40°-50°	1347.2	17.8
50°-60°	1197.6	15.9
60°-70°	903.4	12.0
70°-80°	501.7	6.6
80°-90°	124.8	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°	2152.8	28.5
0°-40°	3478.4	46.1
0°-60°	6023.1	79.7
0°-90°	7553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2836	2836	2836	2836	2836	
5°	2819	2823	2827	2822	2815	268
15°	2692	2694	2696	2690	2682	759
25°	2454	2453	2449	2438	2430	1129
35°	2129	2130	2122	2109	2105	1333
45°	1758	1758	1749	1734	1731	1356
55°	1351	1341	1344	1330	1327	1207
65°	918	913	916	904	898	909
75°	479	473	475	472	465	508
85°	106	103	105	101	97	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2835.8	2835.8	2835.8	2835.8	2835.8
2.5°	2828.5	2833.9	2837.5	2833.1	2832.1
5°	2818.6	2823.0	2826.6	2822.2	2814.9
7.5°	2798.6	2804.1	2806.8	2802.2	2792.2
10°	2770.5	2776.0	2776.8	2772.4	2766.9
12.5°	2736.1	2739.8	2739.8	2736.1	2729.8
15°	2691.7	2694.5	2696.2	2689.9	2681.7
17.5°	2641.1	2645.5	2643.8	2633.8	2630.2
20°	2584.0	2587.6	2583.1	2576.8	2568.6
22.5°	2521.4	2522.4	2518.7	2511.5	2503.3
25°	2454.4	2452.7	2449.1	2438.2	2430.0
27.5°	2376.6	2380.2	2371.0	2361.1	2355.7
30°	2299.6	2300.4	2291.4	2278.7	2274.2
32.5°	2217.2	2215.3	2209.0	2195.4	2188.2
35°	2129.2	2130.2	2122.0	2109.4	2104.8
37.5°	2044.1	2038.7	2032.4	2017.9	2015.1
40°	1949.0	1948.1	1939.1	1926.3	1921.9
42.5°	1854.0	1853.0	1845.8	1833.2	1829.6
45°	1758.0	1758.0	1748.8	1734.3	1730.7
47.5°	1660.1	1656.5	1650.2	1637.5	1633.0
50°	1556.8	1554.2	1550.5	1536.0	1535.1
52.5°	1455.5	1453.6	1447.3	1434.7	1427.4
55°	1351.3	1341.3	1344.0	1329.5	1326.8
57.5°	1244.4	1234.5	1239.8	1227.2	1221.9
60°	1138.5	1128.5	1131.2	1123.0	1146.7
62.5°	1029.9	1023.4	1023.4	1042.5	1008.1
65°	918.4	912.9	915.7	903.9	898.4
67.5°	808.8	800.6	817.8	796.1	787.1
70°	697.4	691.9	698.3	685.6	679.3
72.5°	586.9	582.3	580.6	576.0	570.7
75°	479.1	472.8	475.4	471.8	464.6
77.5°	374.1	372.2	371.4	366.8	361.3
80°	276.2	274.4	272.6	268.9	265.3
82.5°	184.8	183.0	182.1	180.2	179.4
85°	105.9	103.3	105.0	100.6	96.9
87.5°	39.9	38.9	40.8	37.2	34.4
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)