

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: P735750

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735750
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-3500K
Description: 2X4 8500 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT

Light Source: -
Ballast/Driver: -

Summary

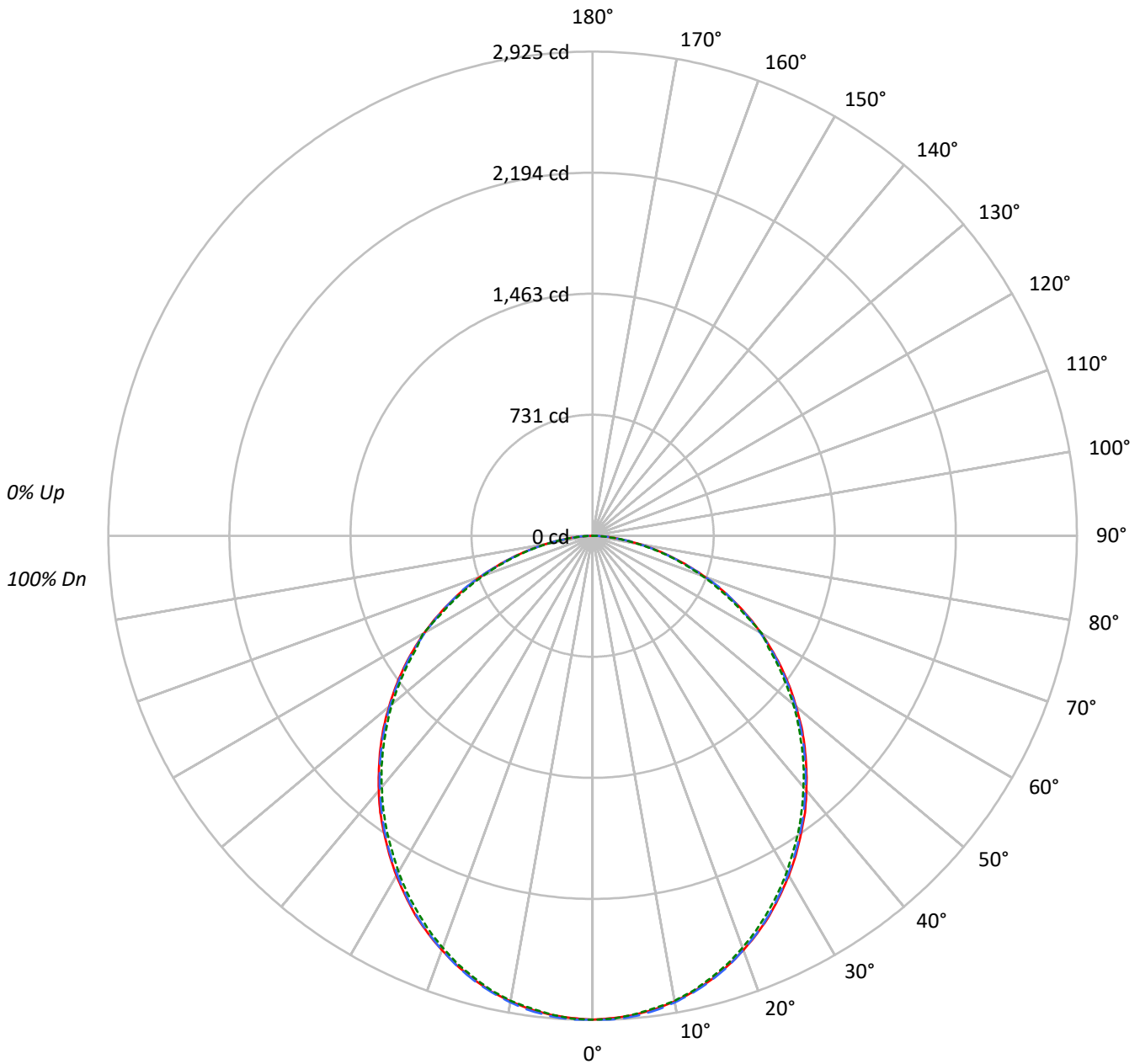
Lumens per Lamp: N/A
Luminaire Lumens: 7786.0 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3933	3933	3933
5°	3924	3935	3919
10°	3902	3911	3897
15°	3865	3872	3851
20°	3814	3813	3791
25°	3756	3748	3719
30°	3683	3670	3642
35°	3605	3593	3564
40°	3529	3511	3480
45°	3448	3430	3395
50°	3359	3346	3312
55°	3268	3250	3209
60°	3158	3138	3181
65°	3014	3005	2948
70°	2828	2832	2755
75°	2567	2548	2490
80°	2206	2177	2119
85°	1686	1670	1542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.1	3.5
10°-20°	782.1	10.0
20°-30°	1160.9	14.9
30°-40°	1366.5	17.6
40°-50°	1388.7	17.8
50°-60°	1234.5	15.9
60°-70°	931.2	12.0
70°-80°	517.2	6.6
80°-90°	128.6	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°	2219.2	28.5
0°-40°	3585.7	46.1
0°-60°	6208.9	79.7
0°-90°	7786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2923	2923	2923	2923	2923	
5°	2906	2910	2914	2909	2902	276
15°	2775	2778	2779	2773	2764	782
25°	2530	2528	2525	2513	2505	1164
35°	2195	2196	2187	2174	2170	1374
45°	1812	1812	1803	1788	1784	1398
55°	1393	1383	1386	1370	1368	1245
65°	947	941	944	932	926	937
75°	494	487	490	486	479	524
85°	109	106	108	104	100	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2923.2	2923.2	2923.2	2923.2	2923.2
2.5°	2915.8	2921.3	2925.0	2920.5	2919.5
5°	2905.5	2910.1	2913.8	2909.3	2901.8
7.5°	2884.9	2890.6	2893.3	2888.6	2878.4
10°	2856.0	2861.6	2862.5	2857.9	2852.2
12.5°	2820.5	2824.3	2824.3	2820.5	2814.0
15°	2774.7	2777.6	2779.4	2772.9	2764.5
17.5°	2722.5	2727.1	2725.3	2715.1	2711.3
20°	2663.7	2667.5	2662.7	2656.2	2647.8
22.5°	2599.2	2600.2	2596.4	2589.0	2580.5
25°	2530.1	2528.4	2524.6	2513.4	2505.0
27.5°	2449.9	2453.6	2444.2	2433.9	2428.4
30°	2370.6	2371.4	2362.1	2349.0	2344.4
32.5°	2285.6	2283.6	2277.1	2263.2	2255.7
35°	2194.9	2195.9	2187.4	2174.4	2169.7
37.5°	2107.2	2101.6	2095.1	2080.2	2077.3
40°	2009.2	2008.2	1998.9	1985.8	1981.2
42.5°	1911.2	1910.2	1902.7	1889.7	1886.0
45°	1812.2	1812.2	1802.8	1787.8	1784.1
47.5°	1711.3	1707.6	1701.1	1688.1	1683.4
50°	1604.9	1602.1	1598.4	1583.4	1582.4
52.5°	1500.4	1498.4	1491.9	1478.9	1471.4
55°	1393.0	1382.7	1385.5	1370.5	1367.8
57.5°	1282.8	1272.5	1278.1	1265.1	1259.5
60°	1173.6	1163.3	1166.1	1157.7	1182.0
62.5°	1061.6	1055.0	1055.0	1074.6	1039.2
65°	946.7	941.0	944.0	931.8	926.1
67.5°	833.8	825.3	843.1	820.6	811.4
70°	718.9	713.2	719.9	706.7	700.2
72.5°	605.0	600.3	598.5	593.8	588.3
75°	493.8	487.3	490.1	486.4	478.9
77.5°	385.6	383.7	382.9	378.1	372.5
80°	284.7	282.9	281.0	277.2	273.5
82.5°	190.5	188.7	187.7	185.7	184.9
85°	109.2	106.4	108.2	103.7	99.9
87.5°	41.1	40.1	42.1	38.4	35.4
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)