

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: P735762

Luminaire Tested: **24APR-85-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735762
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-CP250-5000K
Description: 2X4 8500 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 5000K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

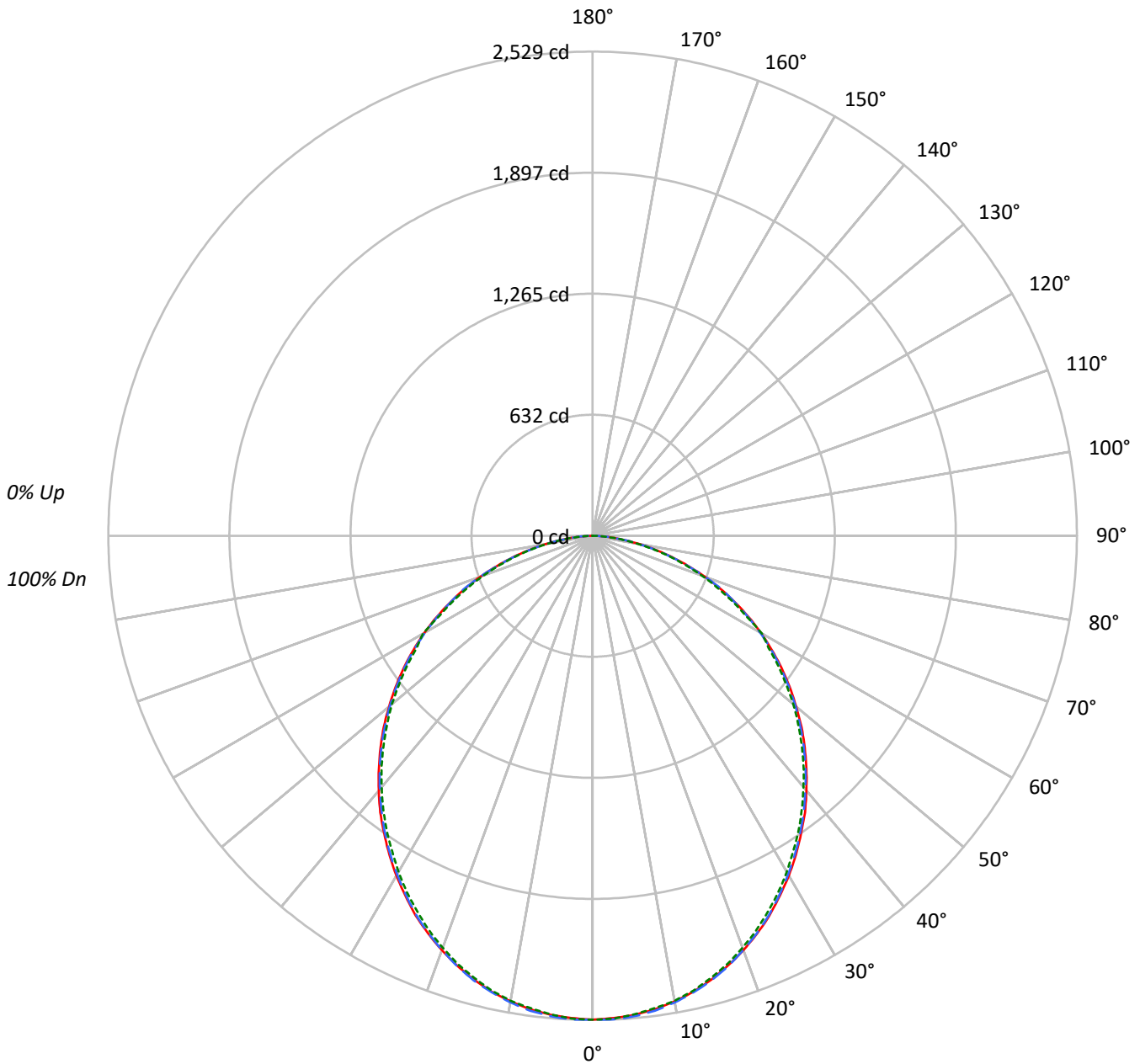
Lumens per Lamp: N/A
Luminaire Lumens: 6732.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3401	3401	3401
5°	3393	3403	3389
10°	3374	3381	3369
15°	3342	3348	3329
20°	3298	3297	3278
25°	3248	3241	3215
30°	3184	3173	3149
35°	3117	3107	3081
40°	3051	3036	3009
45°	2982	2966	2935
50°	2905	2893	2864
55°	2825	2810	2774
60°	2731	2713	2750
65°	2606	2599	2549
70°	2445	2448	2382
75°	2220	2203	2153
80°	1908	1882	1832
85°	1457	1445	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.7	3.5
10°-20°	676.3	10.0
20°-30°	1003.8	14.9
30°-40°	1181.5	17.6
40°-50°	1200.7	17.8
50°-60°	1067.4	15.9
60°-70°	805.1	12.0
70°-80°	447.2	6.6
80°-90°	111.2	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°	1918.8	28.5
0°-40°	3100.3	46.1
0°-60°	5368.4	79.7
0°-90°	6732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6732.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2528	2528	2528	2528	2528	
5°	2512	2516	2519	2515	2509	238
15°	2399	2402	2403	2398	2390	676
25°	2188	2186	2183	2173	2166	1007
35°	1898	1899	1891	1880	1876	1188
45°	1567	1567	1559	1546	1543	1209
55°	1204	1196	1198	1185	1183	1076
65°	819	814	816	806	801	810
75°	427	421	424	420	414	453
85°	94	92	94	90	86	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2527.5	2527.5	2527.5	2527.5	2527.5
2.5°	2521.1	2525.8	2529.1	2525.1	2524.3
5°	2512.2	2516.1	2519.4	2515.4	2509.0
7.5°	2494.4	2499.3	2501.7	2497.6	2488.7
10°	2469.3	2474.3	2475.0	2471.0	2466.1
12.5°	2438.7	2441.9	2441.9	2438.7	2433.1
15°	2399.1	2401.6	2403.2	2397.5	2390.2
17.5°	2354.0	2357.9	2356.4	2347.5	2344.3
20°	2303.1	2306.4	2302.3	2296.7	2289.4
22.5°	2247.4	2248.2	2245.0	2238.5	2231.2
25°	2187.6	2186.1	2182.9	2173.2	2165.9
27.5°	2118.2	2121.5	2113.3	2104.5	2099.7
30°	2049.7	2050.4	2042.4	2031.0	2027.0
32.5°	1976.2	1974.5	1968.9	1956.8	1950.3
35°	1897.8	1898.6	1891.3	1880.1	1876.0
37.5°	1821.9	1817.1	1811.5	1798.6	1796.1
40°	1737.2	1736.3	1728.3	1717.0	1713.0
42.5°	1652.5	1651.6	1645.2	1633.9	1630.7
45°	1566.9	1566.9	1558.7	1545.8	1542.6
47.5°	1479.6	1476.4	1470.8	1459.5	1455.5
50°	1387.6	1385.2	1382.0	1369.1	1368.2
52.5°	1297.3	1295.6	1290.0	1278.7	1272.3
55°	1204.4	1195.5	1197.9	1185.0	1182.6
57.5°	1109.1	1100.3	1105.1	1093.8	1089.0
60°	1014.7	1005.9	1008.3	1000.9	1022.0
62.5°	917.9	912.1	912.1	929.1	898.5
65°	818.6	813.7	816.2	805.6	800.7
67.5°	720.9	713.6	728.9	709.5	701.5
70°	621.6	616.7	622.4	611.0	605.4
72.5°	523.1	519.0	517.5	513.4	508.6
75°	427.0	421.4	423.8	420.5	414.1
77.5°	333.4	331.7	331.0	327.0	322.0
80°	246.2	244.6	242.9	239.7	236.5
82.5°	164.7	163.1	162.3	160.6	159.9
85°	94.4	92.0	93.6	89.6	86.4
87.5°	35.5	34.7	36.4	33.2	30.6
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)