

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: P735758

Luminaire Tested: **24APR-85-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735758
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-CP250-2700K
Description: 2X4 8500 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

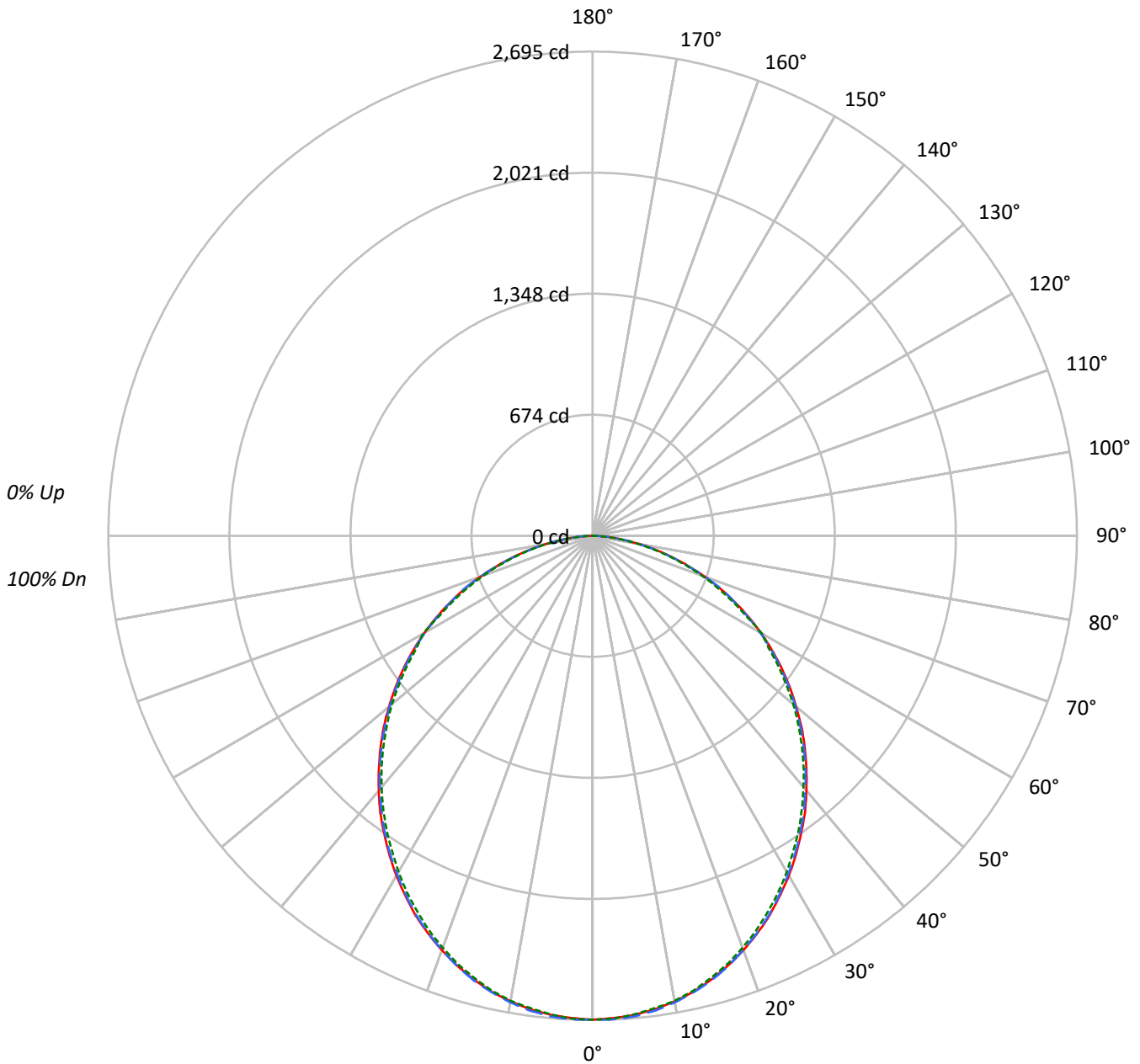
Lumens per Lamp: N/A
Luminaire Lumens: 7174.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3624	3624	3624
5°	3616	3626	3611
10°	3595	3603	3590
15°	3561	3567	3548
20°	3514	3513	3493
25°	3461	3453	3427
30°	3393	3381	3356
35°	3322	3311	3284
40°	3251	3235	3206
45°	3177	3161	3128
50°	3095	3083	3052
55°	3011	2995	2956
60°	2910	2891	2931
65°	2777	2769	2717
70°	2606	2609	2538
75°	2365	2348	2294
80°	2032	2006	1953
85°	1553	1539	1422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.4	3.5
10°-20°	720.7	10.0
20°-30°	1069.7	14.9
30°-40°	1259.1	17.6
40°-50°	1279.6	17.8
50°-60°	1137.5	15.9
60°-70°	858.0	12.0
70°-80°	476.6	6.6
80°-90°	118.5	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°	2044.7	28.5
0°-40°	3303.8	46.1
0°-60°	5720.9	79.7
0°-90°	7174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2694	2694	2694	2694	2694	
5°	2677	2681	2685	2681	2674	254
15°	2557	2559	2561	2555	2547	721
25°	2331	2330	2326	2316	2308	1073
35°	2022	2023	2016	2004	1999	1266
45°	1670	1670	1661	1647	1644	1288
55°	1284	1274	1277	1263	1260	1147
65°	872	867	870	858	853	864
75°	455	449	452	448	441	482
85°	101	98	100	96	92	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2693.5	2693.5	2693.5	2693.5	2693.5
2.5°	2686.6	2691.7	2695.1	2690.9	2690.0
5°	2677.1	2681.3	2684.8	2680.6	2673.7
7.5°	2658.1	2663.4	2665.9	2661.6	2652.1
10°	2631.5	2636.7	2637.5	2633.3	2628.0
12.5°	2598.8	2602.3	2602.3	2598.8	2592.8
15°	2556.6	2559.3	2561.0	2555.0	2547.2
17.5°	2508.5	2512.7	2511.1	2501.7	2498.2
20°	2454.3	2457.8	2453.4	2447.5	2439.7
22.5°	2394.9	2395.8	2392.4	2385.5	2377.7
25°	2331.3	2329.6	2326.2	2315.8	2308.1
27.5°	2257.3	2260.7	2252.1	2242.6	2237.5
30°	2184.2	2185.0	2176.5	2164.3	2160.1
32.5°	2105.9	2104.1	2098.1	2085.3	2078.4
35°	2022.4	2023.3	2015.5	2003.5	1999.2
37.5°	1941.5	1936.4	1930.4	1916.7	1914.0
40°	1851.2	1850.3	1841.8	1829.7	1825.5
42.5°	1761.0	1760.1	1753.2	1741.2	1737.7
45°	1669.8	1669.8	1661.1	1647.3	1643.9
47.5°	1576.8	1573.3	1567.4	1555.4	1551.0
50°	1478.7	1476.2	1472.7	1459.0	1458.1
52.5°	1382.4	1380.6	1374.7	1362.7	1355.8
55°	1283.5	1274.0	1276.6	1262.8	1260.3
57.5°	1182.0	1172.5	1177.6	1165.6	1160.5
60°	1081.3	1071.9	1074.5	1066.7	1089.1
62.5°	978.2	972.0	972.0	990.2	957.5
65°	872.3	867.1	869.8	858.5	853.3
67.5°	768.3	760.5	776.8	756.1	747.6
70°	662.4	657.2	663.3	651.2	645.2
72.5°	557.4	553.1	551.4	547.1	542.0
75°	455.0	449.0	451.6	448.1	441.2
77.5°	355.3	353.5	352.8	348.4	343.2
80°	262.3	260.7	258.9	255.4	252.0
82.5°	175.5	173.8	172.9	171.1	170.4
85°	100.6	98.1	99.7	95.5	92.1
87.5°	37.9	37.0	38.8	35.3	32.6
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)