

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: P735655

Luminaire Tested: **22APR-22-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P708781)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22APR-22-B2750-W2D-CP250-3500K
Description: 2X2 2200 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT, AND CP250 LENS

Light Source: -
Ballast/Driver: -

Summary

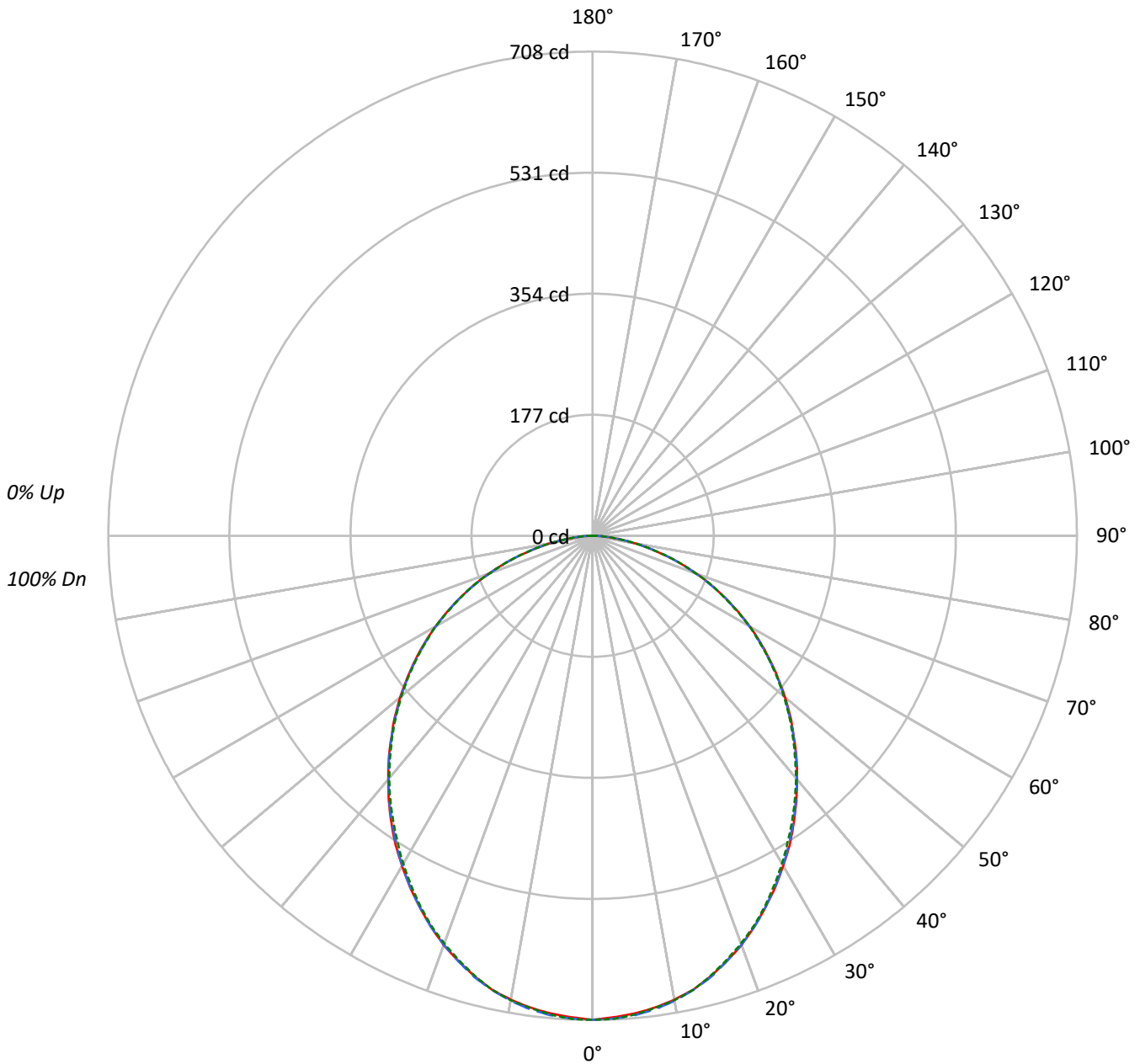
Lumens per Lamp: N/A
Luminaire Lumens: 1808.0 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71																			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60																			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51																			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	58	49	43	69	57	48	42	55	47	42	53	47	42	52	46	41	39																			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35																			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31																			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28																			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1904	1904	1904
5°	1894	1901	1898
10°	1882	1887	1884
15°	1857	1861	1856
20°	1824	1822	1817
25°	1778	1778	1772
30°	1731	1730	1720
35°	1684	1680	1670
40°	1633	1631	1624
45°	1583	1581	1575
50°	1537	1531	1526
55°	1483	1476	1476
60°	1428	1423	1426
65°	1354	1357	1348
70°	1265	1257	1257
75°	1128	1133	1133
80°	955	955	962
85°	722	722	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	3.7
10°-20°	188.0	10.4
20°-30°	275.7	15.2
30°-40°	319.9	17.7
40°-50°	320.7	17.7
50°-60°	282.0	15.6
60°-70°	210.5	11.6
70°-80°	115.8	6.4
80°-90°	28.7	1.6
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°	530.5	29.3
0°-40°	850.3	47.0
0°-60°	1453.0	80.4
0°-90°	1808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1808.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	701	704	704	704	703	67
15°	667	670	668	667	666	188
25°	599	601	599	598	597	276
35°	513	513	511	510	508	321
45°	416	417	415	415	414	321
55°	316	317	315	315	315	283
65°	213	213	213	212	212	211
75°	108	109	109	108	109	116
85°	23	24	23	23	24	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	707.7	707.7	707.7	707.7	707.7
2.5°	704.7	707.2	706.7	708.2	707.2
5°	701.3	703.8	703.8	703.8	702.8
7.5°	695.9	698.4	698.4	698.4	696.4
10°	688.7	691.1	690.6	690.6	689.6
12.5°	679.9	681.3	680.3	680.3	679.9
15°	666.7	669.6	668.1	667.1	666.2
17.5°	652.0	654.9	652.5	652.0	650.5
20°	636.8	638.8	636.3	636.3	634.4
22.5°	618.2	620.2	618.7	617.8	616.8
25°	598.7	601.1	598.7	598.2	596.7
27.5°	578.6	580.6	578.1	576.2	575.3
30°	557.2	558.6	556.7	555.2	553.7
32.5°	536.1	536.1	534.2	532.7	530.8
35°	512.7	513.2	511.3	509.7	508.3
37.5°	489.3	490.2	488.3	486.8	485.8
40°	464.8	465.8	464.3	462.8	462.4
42.5°	441.3	441.3	440.4	438.9	437.9
45°	416.0	417.4	415.4	414.9	413.9
47.5°	392.4	392.4	390.5	389.5	389.5
50°	367.1	368.0	365.6	365.0	364.6
52.5°	341.6	341.1	340.6	340.2	339.7
55°	316.2	316.7	314.7	315.2	314.7
57.5°	290.8	290.3	289.8	289.4	288.9
60°	265.4	264.9	264.4	263.9	264.9
62.5°	239.0	239.5	238.0	239.5	237.5
65°	212.6	212.6	213.1	212.1	211.7
67.5°	187.2	187.2	186.2	186.2	188.1
70°	160.8	161.3	159.8	161.8	159.8
72.5°	134.9	135.4	134.9	134.4	135.4
75°	108.5	109.0	109.0	108.0	109.0
77.5°	84.6	85.1	84.6	84.1	84.6
80°	61.6	62.1	61.6	61.1	62.1
82.5°	41.0	41.5	41.0	41.0	41.5
85°	23.4	23.9	23.4	23.4	23.9
87.5°	9.3	9.8	9.8	9.8	9.8
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)