

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: P735647

Luminaire Tested: **22APR-22-B2750-W2D-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735647
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-5000K
Description: 2X2 2200 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 5000K CCT

Light Source: -
Ballast/Driver: -

Summary

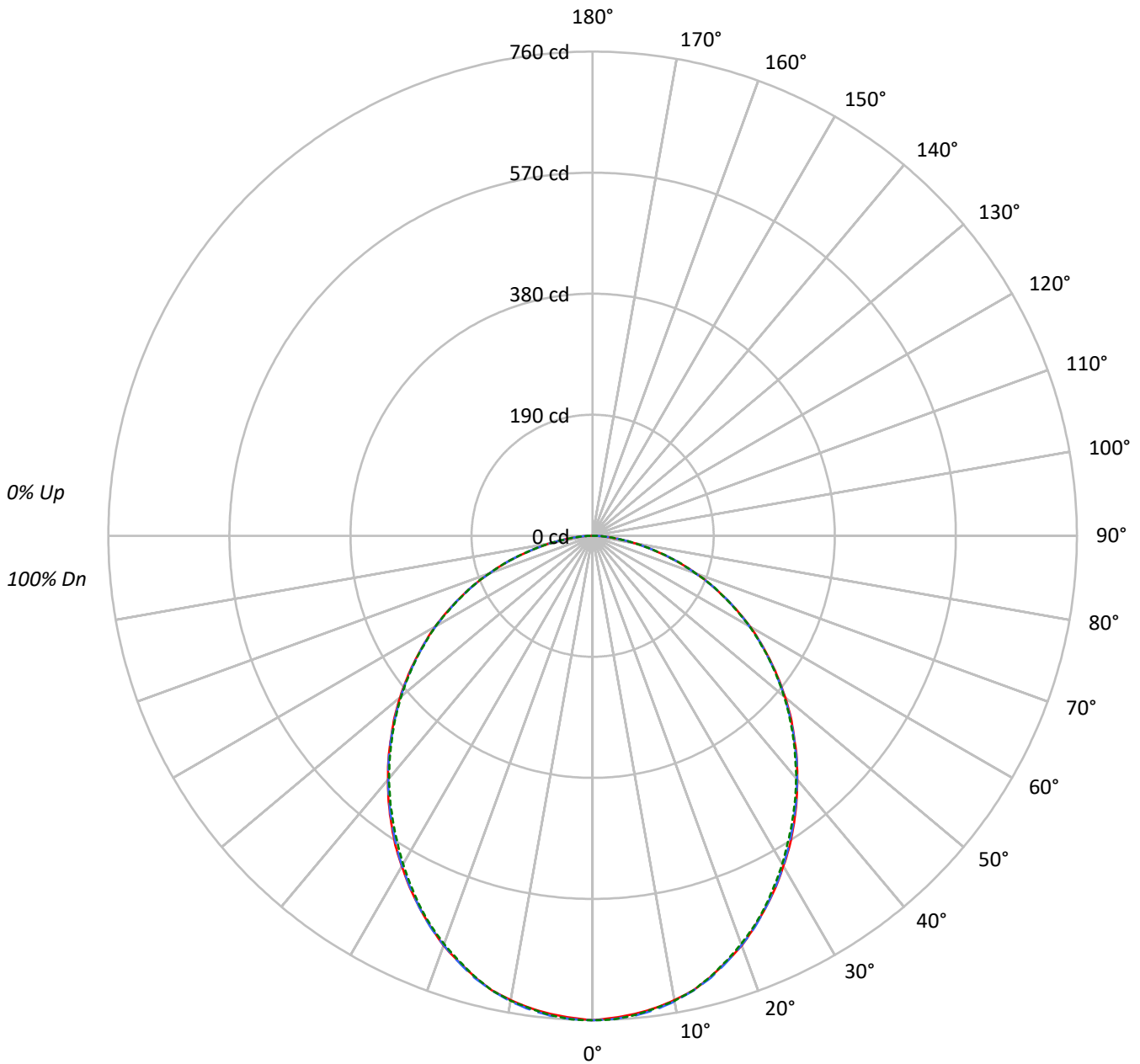
Lumens per Lamp: N/A
Luminaire Lumens: 1943.0 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	2046	2046	2046
5°	2036	2043	2040
10°	2022	2028	2025
15°	1996	2000	1994
20°	1960	1958	1952
25°	1910	1910	1904
30°	1861	1859	1849
35°	1810	1805	1794
40°	1755	1753	1746
45°	1701	1699	1693
50°	1652	1645	1641
55°	1594	1587	1587
60°	1535	1530	1532
65°	1455	1458	1449
70°	1360	1352	1352
75°	1212	1218	1218
80°	1026	1026	1034
85°	778	778	794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	3.7
10°-20°	202.1	10.4
20°-30°	296.3	15.2
30°-40°	343.7	17.7
40°-50°	344.6	17.7
50°-60°	303.1	15.6
60°-70°	226.2	11.6
70°-80°	124.5	6.4
80°-90°	30.8	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°	570.1	29.3
0°-40°	913.8	47.0
0°-60°	1561.5	80.4
0°-90°	1943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	760	760	760	760	760	
5°	754	756	756	756	755	72
15°	716	720	718	717	716	202
25°	643	646	643	643	641	296
35°	551	552	549	548	546	345
45°	447	449	446	446	445	345
55°	340	340	338	339	338	304
65°	228	228	229	228	228	226
75°	117	117	117	116	117	124
85°	25	26	25	25	26	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	760.5	760.5	760.5	760.5	760.5
2.5°	757.3	760.0	759.4	761.1	760.0
5°	753.7	756.3	756.3	756.3	755.3
7.5°	747.9	750.5	750.5	750.5	748.4
10°	740.1	742.7	742.2	742.2	741.1
12.5°	730.6	732.2	731.1	731.1	730.6
15°	716.5	719.5	718.0	716.9	715.9
17.5°	700.6	703.8	701.2	700.6	699.1
20°	684.4	686.5	683.8	683.8	681.7
22.5°	664.4	666.5	664.9	663.9	662.8
25°	643.4	646.0	643.4	642.8	641.3
27.5°	621.9	623.9	621.3	619.2	618.2
30°	598.8	600.3	598.2	596.7	595.0
32.5°	576.1	576.1	574.1	572.5	570.4
35°	551.0	551.5	549.4	547.8	546.2
37.5°	525.8	526.8	524.7	523.2	522.1
40°	499.5	500.5	499.0	497.4	496.9
42.5°	474.3	474.3	473.3	471.6	470.6
45°	447.0	448.6	446.5	445.9	444.8
47.5°	421.7	421.7	419.7	418.6	418.6
50°	394.5	395.5	392.9	392.3	391.9
52.5°	367.1	366.6	366.0	365.6	365.0
55°	339.8	340.3	338.2	338.8	338.2
57.5°	312.5	312.0	311.4	311.0	310.4
60°	285.2	284.7	284.2	283.6	284.7
62.5°	256.8	257.4	255.8	257.4	255.3
65°	228.5	228.5	229.0	227.9	227.5
67.5°	201.2	201.2	200.1	200.1	202.2
70°	172.8	173.3	171.8	173.8	171.8
72.5°	144.9	145.5	144.9	144.4	145.5
75°	116.6	117.1	117.1	116.0	117.1
77.5°	90.9	91.4	90.9	90.3	90.9
80°	66.2	66.7	66.2	65.6	66.7
82.5°	44.1	44.6	44.1	44.1	44.6
85°	25.2	25.7	25.2	25.2	25.7
87.5°	10.0	10.5	10.5	10.5	10.5
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)