

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: P735645

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735645
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-3500K
Description: 2X2 2200 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3500K CCT

Light Source: -
Ballast/Driver: -

Summary

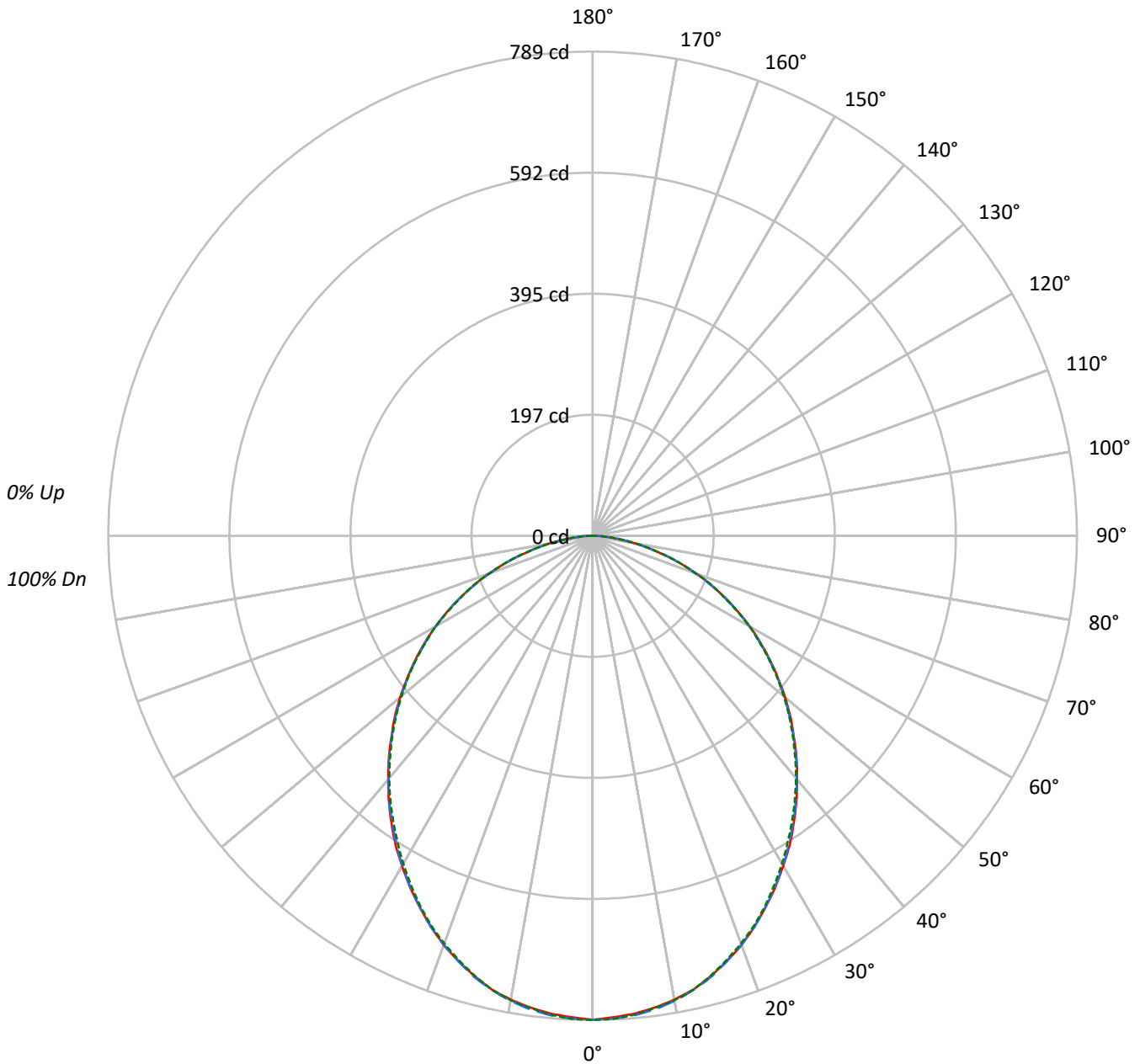
Lumens per Lamp: N/A
Luminaire Lumens: 2015.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	2122	2122	2122
5°	2111	2119	2116
10°	2097	2103	2100
15°	2070	2074	2068
20°	2032	2031	2025
25°	1981	1981	1975
30°	1930	1928	1917
35°	1877	1872	1861
40°	1820	1818	1810
45°	1764	1762	1756
50°	1713	1706	1701
55°	1653	1646	1646
60°	1591	1586	1589
65°	1508	1512	1502
70°	1410	1401	1401
75°	1257	1263	1263
80°	1063	1063	1072
85°	806	806	824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	3.7
10°-20°	209.6	10.4
20°-30°	307.3	15.2
30°-40°	356.5	17.7
40°-50°	357.4	17.7
50°-60°	314.3	15.6
60°-70°	234.6	11.6
70°-80°	129.1	6.4
80°-90°	31.9	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°	591.2	29.3
0°-40°	947.7	47.0
0°-60°	1619.4	80.4
0°-90°	2015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	782	784	784	784	783	74
15°	743	746	745	744	742	209
25°	667	670	667	667	665	307
35°	571	572	570	568	566	357
45°	464	465	463	462	461	358
55°	352	353	351	351	351	315
65°	237	237	238	236	236	235
75°	121	122	122	120	122	129
85°	26	27	26	26	27	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	788.7	788.7	788.7	788.7	788.7
2.5°	785.4	788.1	787.6	789.3	788.1
5°	781.6	784.4	784.4	784.4	783.2
7.5°	775.6	778.3	778.3	778.3	776.2
10°	767.5	770.2	769.7	769.7	768.5
12.5°	757.7	759.3	758.2	758.2	757.7
15°	743.0	746.2	744.6	743.5	742.4
17.5°	726.6	729.9	727.2	726.6	725.0
20°	709.7	711.9	709.2	709.2	707.0
22.5°	689.0	691.2	689.6	688.5	687.4
25°	667.2	670.0	667.2	666.7	665.1
27.5°	644.9	647.1	644.3	642.2	641.1
30°	621.0	622.6	620.4	618.8	617.1
32.5°	597.5	597.5	595.3	593.7	591.6
35°	571.4	572.0	569.8	568.1	566.5
37.5°	545.3	546.3	544.2	542.6	541.4
40°	518.0	519.1	517.5	515.8	515.3
42.5°	491.8	491.8	490.8	489.1	488.1
45°	463.6	465.2	463.0	462.4	461.3
47.5°	437.4	437.4	435.2	434.1	434.1
50°	409.1	410.1	407.4	406.8	406.4
52.5°	380.7	380.2	379.6	379.1	378.6
55°	352.4	352.9	350.8	351.3	350.8
57.5°	324.1	323.5	323.0	322.5	321.9
60°	295.7	295.3	294.7	294.1	295.3
62.5°	266.3	266.9	265.3	266.9	264.7
65°	236.9	236.9	237.5	236.4	235.9
67.5°	208.7	208.7	207.5	207.5	209.7
70°	179.2	179.7	178.1	180.3	178.1
72.5°	150.3	150.9	150.3	149.8	150.9
75°	120.9	121.5	121.5	120.3	121.5
77.5°	94.2	94.8	94.2	93.7	94.2
80°	68.6	69.2	68.6	68.0	69.2
82.5°	45.7	46.3	45.7	45.7	46.3
85°	26.1	26.7	26.1	26.1	26.7
87.5°	10.4	10.9	10.9	10.9	10.9
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)