

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: P735644

Luminaire Tested: **22APR-22-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735644
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-3000K
Description: 2X2 2200 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 3000K CCT

Light Source: -
Ballast/Driver: -

Summary

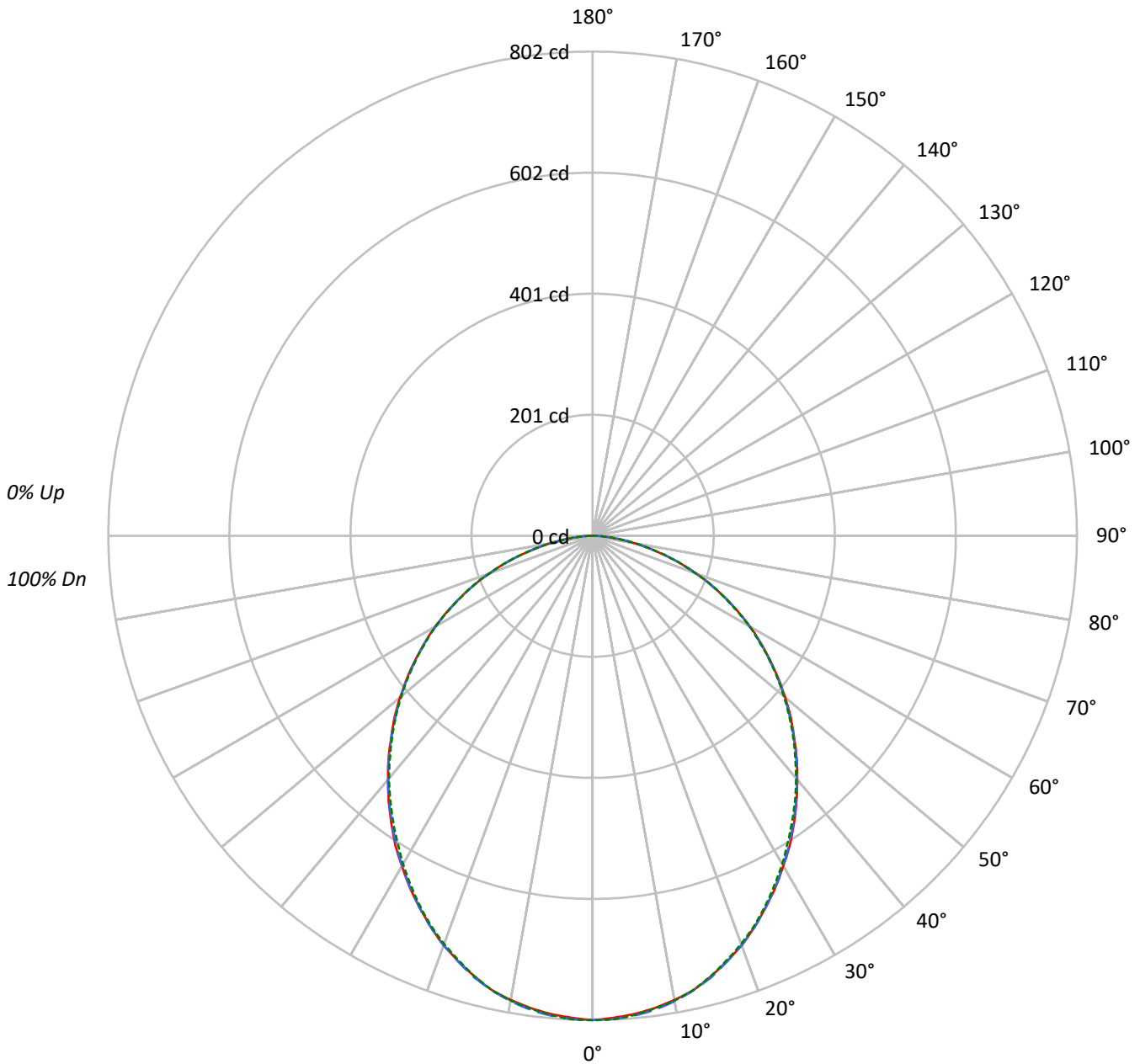
Lumens per Lamp: N/A
Luminaire Lumens: 2050.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	2159	2159	2159
5°	2148	2156	2152
10°	2134	2140	2137
15°	2106	2110	2104
20°	2068	2066	2060
25°	2015	2015	2009
30°	1963	1961	1951
35°	1910	1904	1893
40°	1851	1850	1842
45°	1795	1793	1786
50°	1742	1735	1731
55°	1682	1674	1674
60°	1619	1614	1617
65°	1535	1538	1528
70°	1435	1426	1426
75°	1279	1285	1285
80°	1082	1082	1091
85°	821	821	837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	3.7
10°-20°	213.2	10.4
20°-30°	312.6	15.2
30°-40°	362.7	17.7
40°-50°	363.6	17.7
50°-60°	319.8	15.6
60°-70°	238.6	11.6
70°-80°	131.3	6.4
80°-90°	32.5	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°	601.5	29.3
0°-40°	964.1	47.0
0°-60°	1647.5	80.4
0°-90°	2050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	795	798	798	798	797	75
15°	756	759	758	756	755	213
25°	679	682	679	678	677	313
35°	581	582	580	578	576	364
45°	472	473	471	470	469	364
55°	358	359	357	357	357	321
65°	241	241	242	240	240	239
75°	123	124	124	122	124	131
85°	27	27	27	27	27	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	802.4	802.4	802.4	802.4	802.4
2.5°	799.1	801.8	801.3	803.0	801.8
5°	795.2	798.0	798.0	798.0	796.8
7.5°	789.1	791.9	791.9	791.9	789.7
10°	780.8	783.6	783.0	783.0	781.9
12.5°	770.9	772.5	771.3	771.3	770.9
15°	755.9	759.2	757.5	756.4	755.3
17.5°	739.2	742.6	739.8	739.2	737.6
20°	722.1	724.3	721.5	721.5	719.3
22.5°	701.0	703.2	701.5	700.5	699.3
25°	678.8	681.6	678.8	678.2	676.6
27.5°	656.1	658.3	655.5	653.3	652.3
30°	631.7	633.4	631.2	629.5	627.8
32.5°	607.9	607.9	605.7	604.0	601.8
35°	581.3	581.9	579.7	578.0	576.3
37.5°	554.8	555.8	553.6	552.0	550.8
40°	527.0	528.1	526.5	524.7	524.3
42.5°	500.4	500.4	499.3	497.6	496.6
45°	471.6	473.3	471.1	470.5	469.3
47.5°	445.0	445.0	442.8	441.6	441.6
50°	416.2	417.3	414.5	413.9	413.4
52.5°	387.4	386.8	386.2	385.7	385.1
55°	358.5	359.1	356.9	357.4	356.9
57.5°	329.7	329.2	328.6	328.1	327.5
60°	300.9	300.4	299.8	299.2	300.4
62.5°	271.0	271.5	269.9	271.5	269.3
65°	241.0	241.0	241.6	240.5	240.0
67.5°	212.3	212.3	211.1	211.1	213.3
70°	182.4	182.8	181.2	183.4	181.2
72.5°	152.9	153.5	152.9	152.4	153.5
75°	123.0	123.6	123.6	122.4	123.6
77.5°	95.9	96.5	95.9	95.3	95.9
80°	69.8	70.4	69.8	69.2	70.4
82.5°	46.5	47.1	46.5	46.5	47.1
85°	26.6	27.1	26.6	26.6	27.1
87.5°	10.5	11.1	11.1	11.1	11.1
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)