

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: P735643

Luminaire Tested: **22APR-22-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735643
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-2700K
Description: 2X2 2200 AMBIENT LUMEN OUTPUT APR TROFFER WITH BIO UP LEDS AT 2700K CCT

Light Source: -
Ballast/Driver: -

Summary

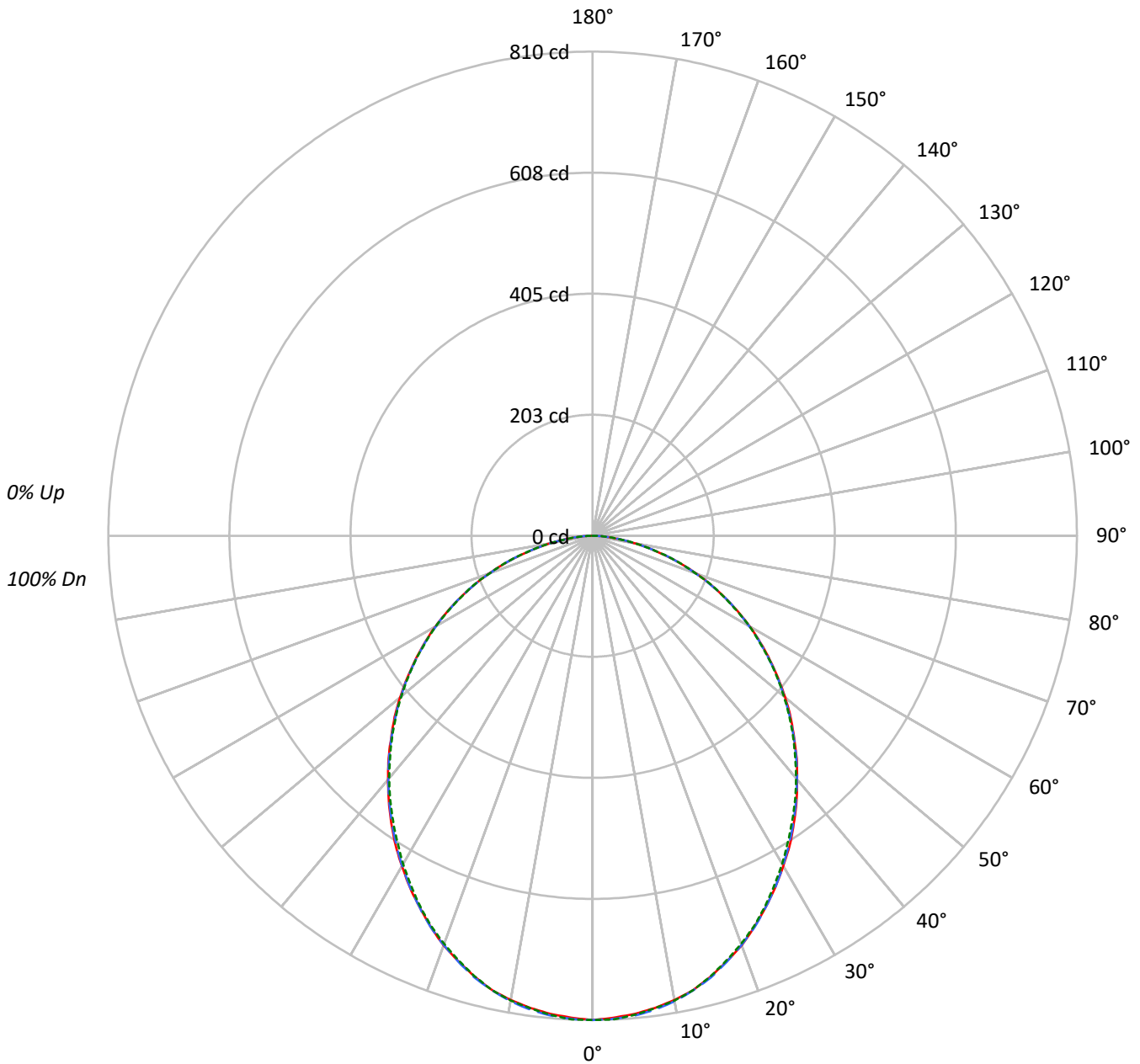
Lumens per Lamp: N/A
Luminaire Lumens: 2070.0 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	2180	2180	2180
5°	2169	2177	2173
10°	2155	2161	2157
15°	2126	2131	2125
20°	2088	2086	2080
25°	2035	2035	2029
30°	1982	1980	1970
35°	1928	1923	1912
40°	1870	1867	1860
45°	1812	1810	1803
50°	1760	1752	1748
55°	1698	1690	1690
60°	1635	1629	1632
65°	1550	1554	1543
70°	1448	1440	1440
75°	1291	1298	1298
80°	1093	1093	1102
85°	827	827	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	3.7
10°-20°	215.3	10.4
20°-30°	315.7	15.2
30°-40°	366.2	17.7
40°-50°	367.2	17.7
50°-60°	322.9	15.6
60°-70°	241.0	11.6
70°-80°	132.6	6.4
80°-90°	32.8	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°	607.3	29.3
0°-40°	973.5	47.0
0°-60°	1663.6	80.4
0°-90°	2070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	810	810	810	810	810	
5°	803	806	806	806	805	76
15°	763	767	765	764	763	215
25°	685	688	685	685	683	316
35°	587	588	585	584	582	367
45°	476	478	476	475	474	368
55°	362	363	360	361	360	324
65°	243	243	244	243	242	241
75°	124	125	125	124	125	133
85°	27	27	27	27	27	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	810.2	810.2	810.2	810.2	810.2
2.5°	806.9	809.7	809.1	810.8	809.7
5°	803.0	805.8	805.8	805.8	804.6
7.5°	796.8	799.6	799.6	799.6	797.4
10°	788.5	791.3	790.7	790.7	789.5
12.5°	778.4	780.0	778.9	778.9	778.4
15°	763.3	766.6	764.9	763.8	762.7
17.5°	746.4	749.8	747.0	746.4	744.8
20°	729.1	731.3	728.5	728.5	726.3
22.5°	707.8	710.0	708.4	707.3	706.2
25°	685.4	688.3	685.4	684.9	683.2
27.5°	662.5	664.7	661.9	659.7	658.6
30°	637.9	639.6	637.3	635.7	633.9
32.5°	613.8	613.8	611.6	609.9	607.7
35°	587.0	587.6	585.3	583.6	582.0
37.5°	560.2	561.2	559.0	557.4	556.2
40°	532.2	533.3	531.6	529.9	529.4
42.5°	505.3	505.3	504.2	502.5	501.4
45°	476.2	477.9	475.6	475.1	473.9
47.5°	449.3	449.3	447.1	445.9	445.9
50°	420.3	421.3	418.5	417.9	417.5
52.5°	391.1	390.5	390.0	389.5	388.9
55°	362.0	362.6	360.3	360.9	360.3
57.5°	332.9	332.4	331.8	331.3	330.7
60°	303.8	303.3	302.7	302.2	303.3
62.5°	273.6	274.2	272.5	274.2	272.0
65°	243.4	243.4	244.0	242.8	242.3
67.5°	214.3	214.3	213.2	213.2	215.4
70°	184.1	184.6	183.0	185.2	183.0
72.5°	154.4	155.0	154.4	153.8	155.0
75°	124.2	124.8	124.8	123.6	124.8
77.5°	96.8	97.4	96.8	96.2	96.8
80°	70.5	71.1	70.5	69.9	71.1
82.5°	47.0	47.5	47.0	47.0	47.5
85°	26.8	27.4	26.8	26.8	27.4
87.5°	10.6	11.2	11.2	11.2	11.2
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)