

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: P732417

Luminaire Tested: **14FCZ2-20-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-B2750-W2D-CA125-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

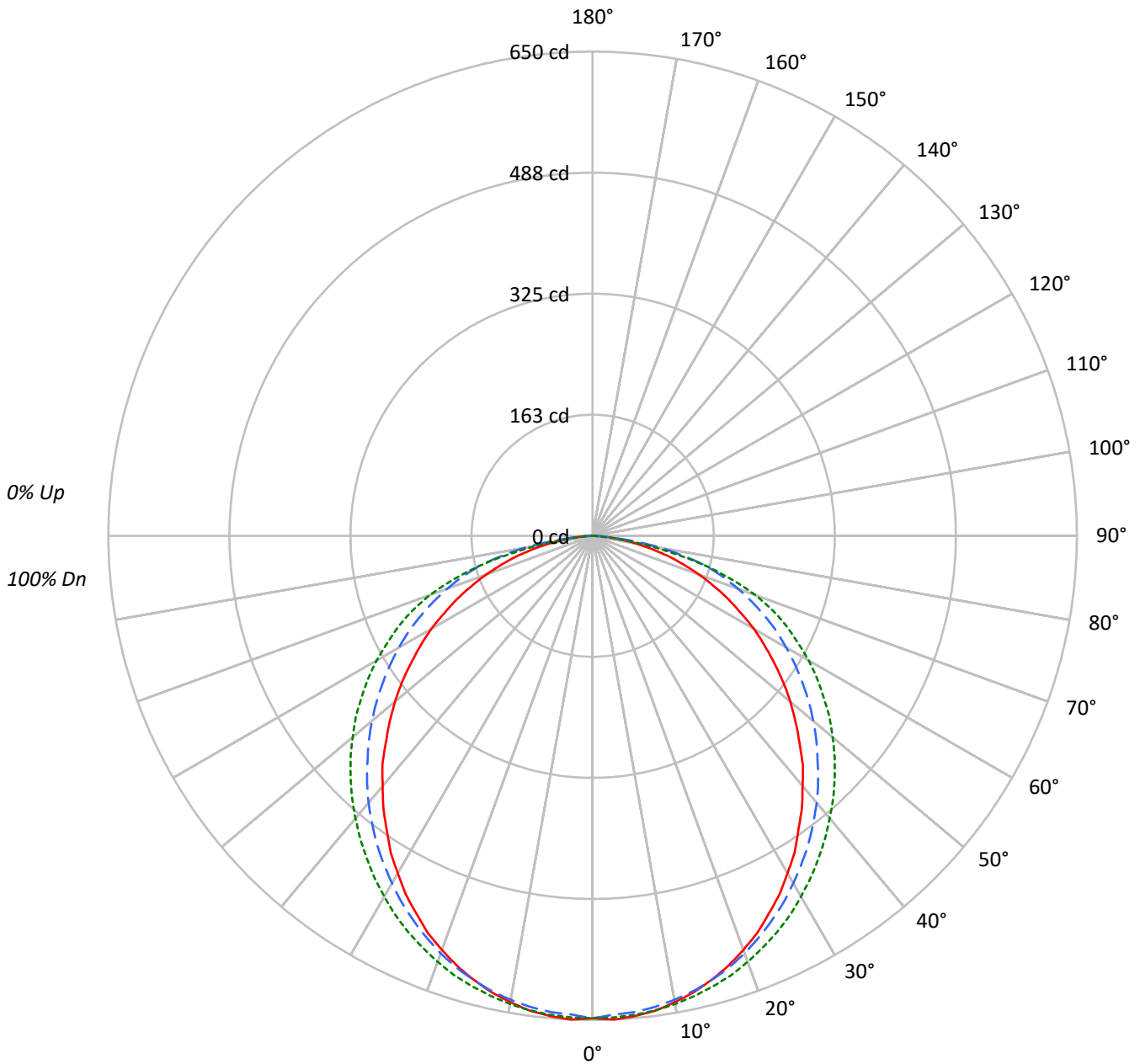
Lumens per Lamp: N/A
Luminaire Lumens: 1880.0 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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					20					
RC	80					70					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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83								
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69								
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58								
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49								
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42								
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37								
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32								
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29								
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26								
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1828	1828	1828
5°	1834	1819	1829
10°	1823	1813	1830
15°	1803	1804	1829
20°	1777	1792	1828
25°	1743	1774	1827
30°	1705	1756	1823
35°	1660	1741	1821
40°	1615	1724	1824
45°	1566	1705	1834
50°	1520	1697	1846
55°	1463	1692	1863
60°	1411	1695	1889
65°	1338	1700	1918
70°	1256	1712	1916
75°	1137	1729	1733
80°	935	1492	1232
85°	693	706	285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	3.3
10°-20°	175.1	9.3
20°-30°	263.7	14.0
30°-40°	316.5	16.8
40°-50°	329.9	17.5
50°-60°	305.4	16.2
60°-70°	246.7	13.1
70°-80°	150.4	8.0
80°-90°	31.1	1.7
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°	500.1	26.6
0°-40°	816.6	43.4
0°-60°	1451.8	77.2
0°-90°	1880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	647	646	642	646	646	61
15°	617	617	617	626	626	174
25°	560	563	570	584	586	258
35°	482	489	505	524	529	302
45°	392	404	427	451	459	303
55°	297	313	344	371	378	266
65°	200	220	254	280	287	198
75°	104	127	158	161	159	110
85°	21	32	22	12	9	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	647.7	647.7	647.7	647.7	647.7
2.5°	650.2	648.1	643.5	648.1	647.2
5°	647.2	645.6	641.8	646.4	645.6
7.5°	643.1	641.3	638.0	643.5	642.6
10°	635.9	635.1	632.6	638.9	638.4
12.5°	627.6	627.1	625.9	633.0	632.6
15°	617.1	617.4	617.4	625.9	625.9
17.5°	605.3	606.1	607.9	617.1	618.4
20°	591.5	593.2	596.5	607.1	608.7
22.5°	577.3	578.5	583.5	596.1	597.8
25°	559.6	563.0	569.7	584.0	586.5
27.5°	542.9	545.8	555.0	569.7	573.9
30°	523.1	527.8	538.7	554.7	559.3
32.5°	504.3	509.3	521.9	540.3	544.5
35°	481.7	489.2	505.1	523.6	528.6
37.5°	461.2	468.2	486.3	506.4	512.3
40°	438.4	447.3	467.9	489.2	495.1
42.5°	417.6	425.9	448.1	469.9	477.9
45°	392.4	404.2	427.1	451.0	459.4
47.5°	369.3	381.1	407.5	433.0	440.6
50°	346.2	358.8	386.5	412.9	420.4
52.5°	322.3	335.8	365.5	391.9	400.8
55°	297.2	312.8	343.8	370.6	378.5
57.5°	273.3	289.2	322.3	349.6	357.5
60°	249.9	266.2	300.2	326.1	334.6
62.5°	223.9	243.2	278.4	303.9	310.2
65°	200.4	220.1	254.5	280.0	287.1
67.5°	175.7	197.0	231.4	254.8	261.6
70°	152.2	174.4	207.5	229.3	232.2
72.5°	127.1	149.7	183.2	197.0	197.0
75°	104.3	127.4	158.5	161.0	158.9
77.5°	79.6	105.3	125.3	120.3	115.3
80°	57.5	82.6	91.8	82.6	75.8
82.5°	38.5	59.9	55.3	44.0	39.0
85°	21.4	31.9	21.8	12.1	8.8
87.5°	8.0	7.2	2.1	2.1	2.1
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)