

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: P732419

Luminaire Tested: **14FCZ2-20-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732419
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-CA125-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

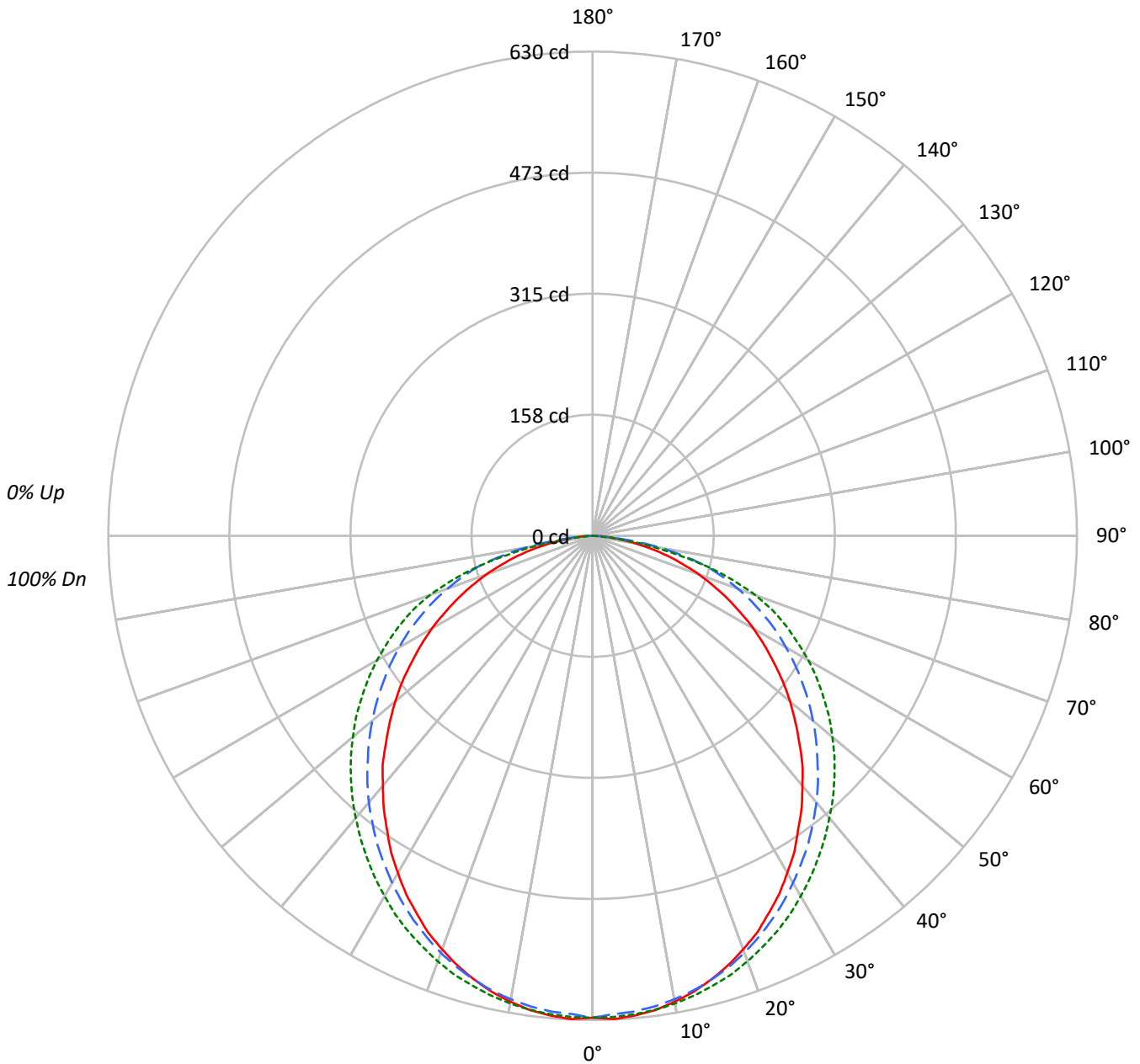
Lumens per Lamp: N/A
Luminaire Lumens: 1820.0 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
Input Voltage (V): NR
Input Current (Ain): 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	90	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°	1770	1770	1770
5°	1775	1760	1771
10°	1764	1755	1772
15°	1746	1747	1771
20°	1720	1735	1770
25°	1687	1718	1768
30°	1651	1700	1765
35°	1607	1685	1763
40°	1564	1669	1766
45°	1517	1651	1776
50°	1472	1643	1787
55°	1416	1638	1804
60°	1366	1641	1829
65°	1296	1646	1857
70°	1216	1658	1855
75°	1102	1673	1677
80°	904	1443	1193
85°	670	683	275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	3.3
10°-20°	169.5	9.3
20°-30°	255.3	14.0
30°-40°	306.4	16.8
40°-50°	319.3	17.5
50°-60°	295.6	16.2
60°-70°	238.9	13.1
70°-80°	145.6	8.0
80°-90°	30.0	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°	484.1	26.6
0°-40°	790.5	43.4
0°-60°	1405.5	77.2
0°-90°	1820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	627	625	621	626	625	59
15°	597	598	598	606	606	168
25°	542	545	552	565	568	250
35°	466	474	489	507	512	292
45°	380	391	414	437	445	294
55°	288	303	333	359	366	258
65°	194	213	246	271	278	192
75°	101	123	153	156	154	106
85°	21	31	21	12	8	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627.0	627.0	627.0	627.0	627.0
2.5°	629.5	627.5	623.0	627.5	626.6
5°	626.6	625.0	621.3	625.8	625.0
7.5°	622.5	620.9	617.6	623.0	622.1
10°	615.6	614.8	612.4	618.5	618.1
12.5°	607.6	607.1	605.9	612.8	612.4
15°	597.4	597.7	597.7	605.9	605.9
17.5°	586.0	586.8	588.5	597.4	598.6
20°	572.6	574.3	577.5	587.7	589.2
22.5°	558.9	560.1	564.9	577.1	578.7
25°	541.8	545.0	551.5	565.3	567.8
27.5°	525.6	528.4	537.3	551.5	555.6
30°	506.5	510.9	521.5	537.0	541.4
32.5°	488.2	493.0	505.2	523.1	527.1
35°	466.3	473.6	489.0	506.9	511.7
37.5°	446.5	453.3	470.8	490.3	496.0
40°	424.4	433.0	452.9	473.6	479.3
42.5°	404.2	412.3	433.8	454.9	462.7
45°	379.9	391.3	413.5	436.6	444.8
47.5°	357.5	368.9	394.5	419.2	426.6
50°	335.2	347.4	374.2	399.8	407.0
52.5°	312.1	325.1	353.8	379.4	388.0
55°	287.7	302.8	332.8	358.8	366.5
57.5°	264.6	280.0	312.1	338.4	346.1
60°	241.9	257.8	290.6	315.7	323.9
62.5°	216.7	235.4	269.5	294.2	300.3
65°	194.0	213.1	246.4	271.0	278.0
67.5°	170.0	190.7	224.0	246.7	253.3
70°	147.4	168.8	200.9	222.0	224.8
72.5°	123.0	144.9	177.3	190.7	190.7
75°	101.0	123.3	153.4	155.9	153.8
77.5°	77.1	101.9	121.3	116.4	111.6
80°	55.6	80.0	88.8	80.0	73.4
82.5°	37.3	58.0	53.5	42.6	37.8
85°	20.7	30.8	21.1	11.7	8.5
87.5°	7.7	6.9	2.0	2.0	2.0
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)