

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: P732427

Luminaire Tested: **14FCZ2-20-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732427
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-CP250-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

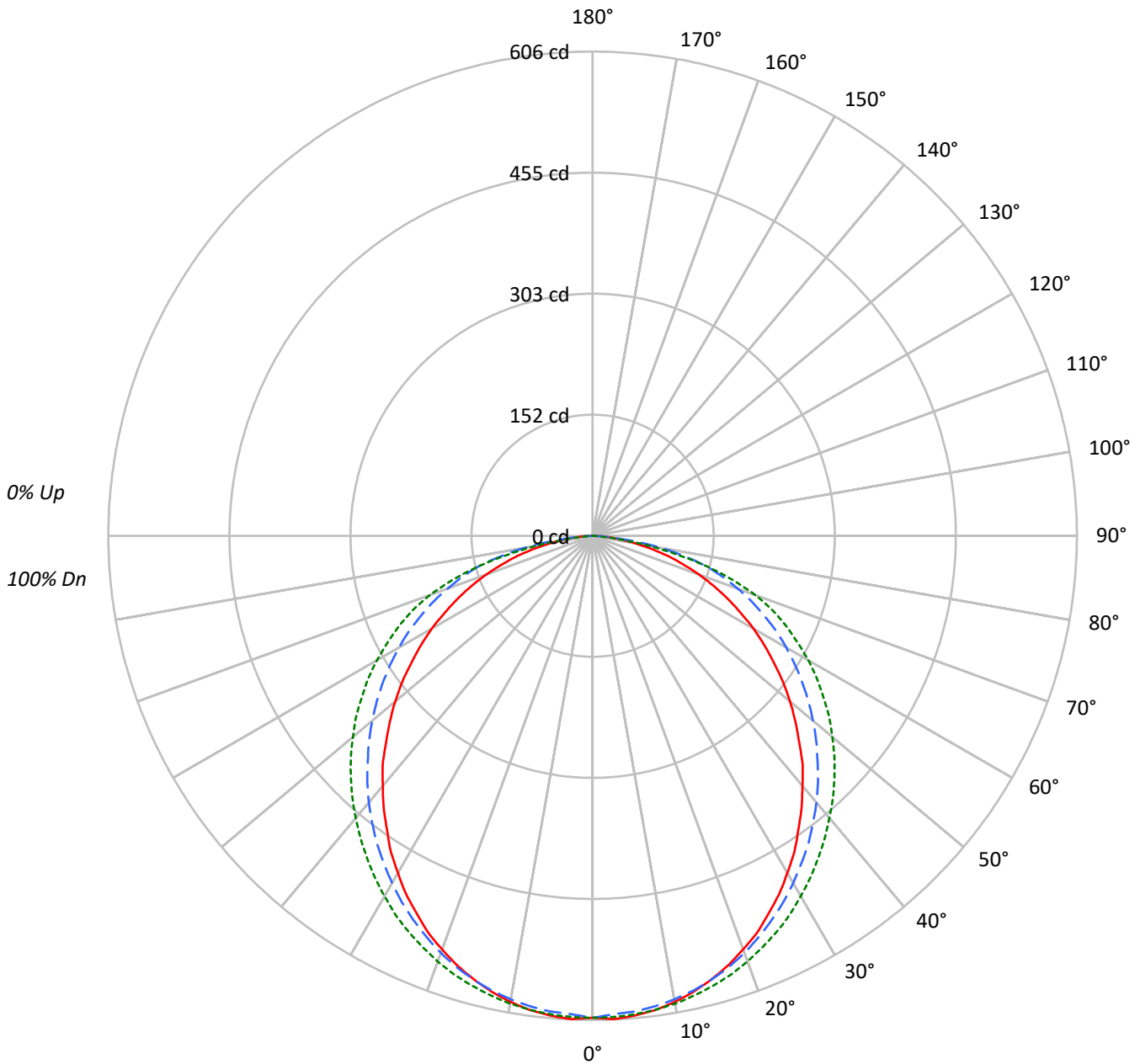
Lumens per Lamp: N/A
Luminaire Lumens: 1751.0 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	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°	1703	1703	1703
5°	1708	1694	1704
10°	1698	1689	1704
15°	1679	1681	1703
20°	1655	1669	1703
25°	1623	1653	1701
30°	1588	1636	1698
35°	1546	1621	1696
40°	1505	1606	1699
45°	1459	1588	1708
50°	1416	1581	1720
55°	1362	1576	1735
60°	1314	1578	1759
65°	1246	1583	1786
70°	1170	1595	1785
75°	1060	1610	1614
80°	870	1390	1148
85°	644	657	266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	3.3
10°-20°	163.1	9.3
20°-30°	245.6	14.0
30°-40°	294.8	16.8
40°-50°	307.2	17.5
50°-60°	284.4	16.2
60°-70°	229.8	13.1
70°-80°	140.1	8.0
80°-90°	28.9	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°	465.8	26.6
0°-40°	760.6	43.4
0°-60°	1352.2	77.2
0°-90°	1751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	603	601	598	602	601	57
15°	575	575	575	583	583	162
25°	521	524	531	544	546	240
35°	449	456	470	488	492	281
45°	366	376	398	420	428	282
55°	277	291	320	345	353	248
65°	187	205	237	261	267	185
75°	97	119	148	150	148	102
85°	20	30	20	11	8	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	603.2	603.2	603.2	603.2	603.2
2.5°	605.6	603.7	599.4	603.7	602.8
5°	602.8	601.3	597.8	602.1	601.3
7.5°	598.9	597.3	594.2	599.4	598.5
10°	592.3	591.5	589.2	595.1	594.6
12.5°	584.5	584.1	582.9	589.6	589.2
15°	574.7	575.1	575.1	582.9	582.9
17.5°	563.8	564.5	566.2	574.7	575.9
20°	550.9	552.5	555.6	565.4	566.9
22.5°	537.7	538.8	543.5	555.2	556.8
25°	521.2	524.3	530.6	543.9	546.3
27.5°	505.6	508.3	516.9	530.6	534.5
30°	487.3	491.6	501.8	516.6	520.9
32.5°	469.7	474.4	486.1	503.3	507.1
35°	448.7	455.7	470.5	487.7	492.3
37.5°	429.5	436.1	453.0	471.7	477.1
40°	408.4	416.6	435.8	455.7	461.1
42.5°	388.9	396.6	417.4	437.7	445.1
45°	365.5	376.4	397.8	420.1	427.9
47.5°	344.0	354.9	379.5	403.3	410.4
50°	322.5	334.2	360.0	384.6	391.6
52.5°	300.2	312.8	340.4	365.0	373.3
55°	276.8	291.3	320.2	345.2	352.6
57.5°	254.5	269.4	300.2	325.6	333.0
60°	232.7	248.0	279.6	303.8	311.6
62.5°	208.5	226.5	259.3	283.0	288.9
65°	186.6	205.0	237.0	260.8	267.4
67.5°	163.6	183.5	215.5	237.3	243.7
70°	141.8	162.4	193.3	213.6	216.3
72.5°	118.3	139.4	170.6	183.5	183.5
75°	97.2	118.7	147.6	149.9	148.0
77.5°	74.2	98.0	116.7	112.0	107.4
80°	53.5	77.0	85.5	77.0	70.6
82.5°	35.9	55.8	51.5	41.0	36.3
85°	19.9	29.7	20.3	11.3	8.2
87.5°	7.4	6.7	1.9	1.9	1.9
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)