

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: P732504

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-S-B2750-W2D-CP250-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

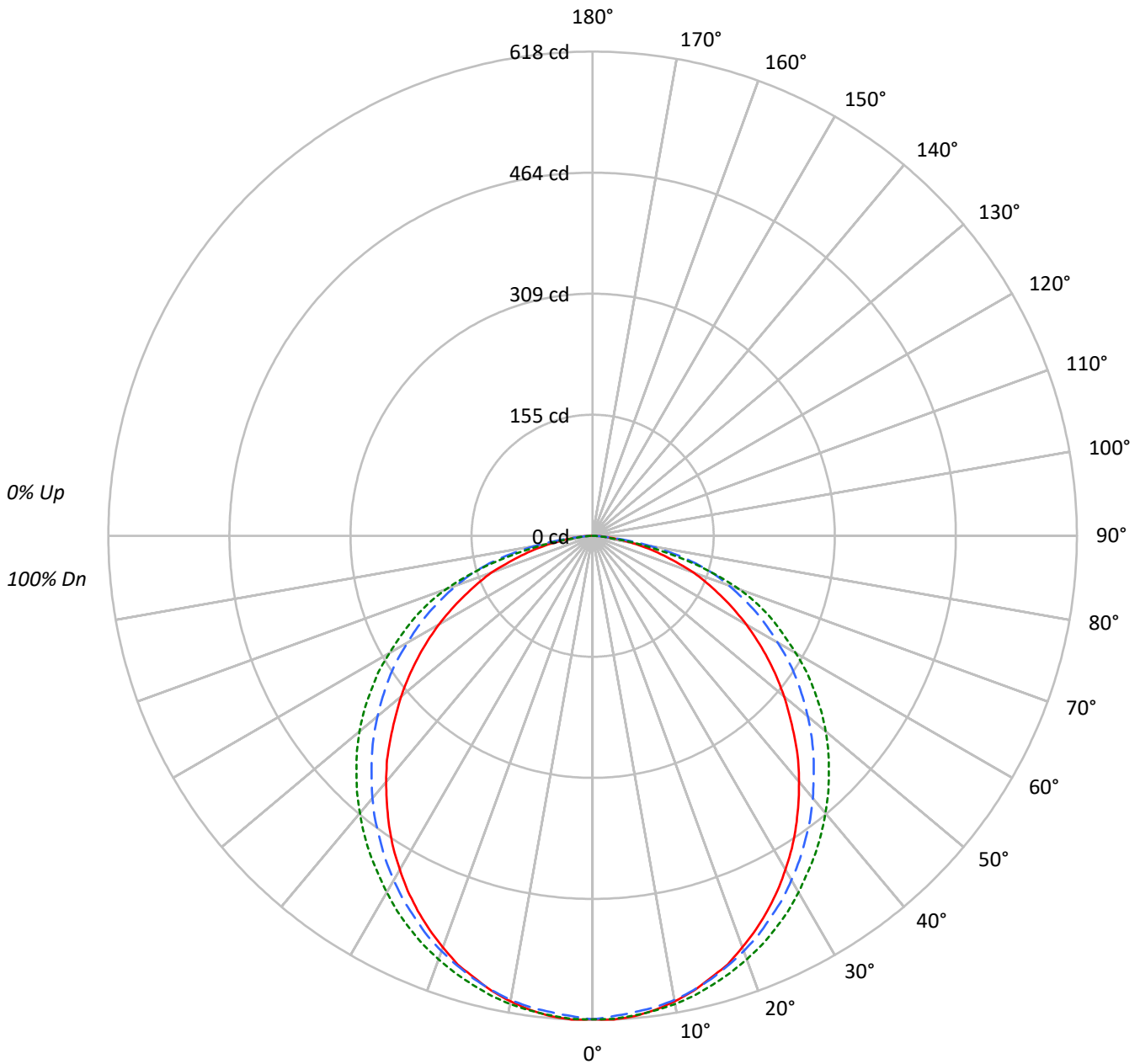
Lumens per Lamp: N/A
Luminaire Lumens: 1729.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732504

CATALOG NUMBER: 14FCZ2-20-S-B2750-W2D-CP250-4000K

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	94	97	94	91	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1742	1742	1742
5°	1744	1730	1741
10°	1730	1725	1740
15°	1706	1711	1733
20°	1679	1694	1728
25°	1644	1674	1722
30°	1604	1654	1713
35°	1560	1631	1707
40°	1510	1611	1703
45°	1454	1591	1701
50°	1400	1573	1705
55°	1342	1561	1700
60°	1278	1539	1689
65°	1202	1534	1689
70°	1132	1521	1641
75°	982	1486	1403
80°	793	1198	935
85°	528	415	279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	3.4
10°-20°	165.9	9.6
20°-30°	248.8	14.4
30°-40°	296.8	17.2
40°-50°	306.8	17.7
50°-60°	280.1	16.2
60°-70°	220.4	12.7
70°-80°	128.3	7.4
80°-90°	23.6	1.4
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°	472.9	27.4
0°-40°	769.7	44.5
0°-60°	1356.6	78.5
0°-90°	1729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1729.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	616	614	610	616	615	58
15°	584	585	586	593	593	165
25°	528	531	538	550	553	243
35°	453	459	473	491	496	283
45°	364	376	399	421	426	281
55°	273	287	317	340	346	244
65°	180	199	230	248	253	179
75°	90	112	136	134	129	96
85°	16	23	13	10	9	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	617.2	617.2	617.2	617.2	617.2
2.5°	618.1	616.4	613.8	618.1	617.2
5°	615.5	613.8	610.4	615.5	614.6
7.5°	610.4	608.6	606.9	612.1	611.2
10°	603.5	602.6	601.8	607.8	606.9
12.5°	595.0	595.0	594.1	600.9	600.9
15°	583.8	584.7	585.5	593.2	593.2
17.5°	573.5	572.7	575.2	583.8	584.7
20°	558.9	560.6	564.1	574.4	575.2
22.5°	544.3	546.1	552.1	562.4	564.9
25°	528.0	530.7	537.5	550.3	552.9
27.5°	510.9	514.4	523.7	537.5	540.0
30°	492.0	497.2	507.5	522.9	525.5
32.5°	473.2	478.4	491.2	506.6	510.1
35°	452.6	458.6	473.2	491.2	495.5
37.5°	431.2	438.9	456.1	474.1	479.2
40°	409.8	418.4	437.2	456.1	462.1
42.5°	388.3	397.0	417.4	438.9	445.0
45°	364.3	376.4	398.6	420.9	426.1
47.5°	341.2	354.1	378.9	401.2	408.1
50°	318.9	331.7	358.3	381.5	388.3
52.5°	295.8	309.5	337.7	361.8	367.8
55°	272.6	287.2	317.2	340.3	345.5
57.5°	249.5	264.9	295.8	318.1	324.1
60°	226.4	242.6	272.6	294.9	299.2
62.5°	203.2	220.3	251.2	270.9	275.2
65°	180.0	198.8	229.7	247.8	252.9
67.5°	157.8	176.6	206.6	223.7	228.0
70°	137.2	154.3	184.3	197.2	198.8
72.5°	111.5	132.9	162.0	168.9	164.6
75°	90.0	111.5	136.3	133.7	128.6
77.5°	68.6	90.0	106.3	97.7	90.9
80°	48.8	70.3	73.7	60.8	57.5
82.5°	31.7	48.8	41.2	31.7	25.7
85°	16.3	23.1	12.8	10.3	8.6
87.5°	5.1	3.5	1.7	1.7	0.8
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)