

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: P732412

Luminaire Tested: **14FCZ2-20-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732412
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-CA08-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

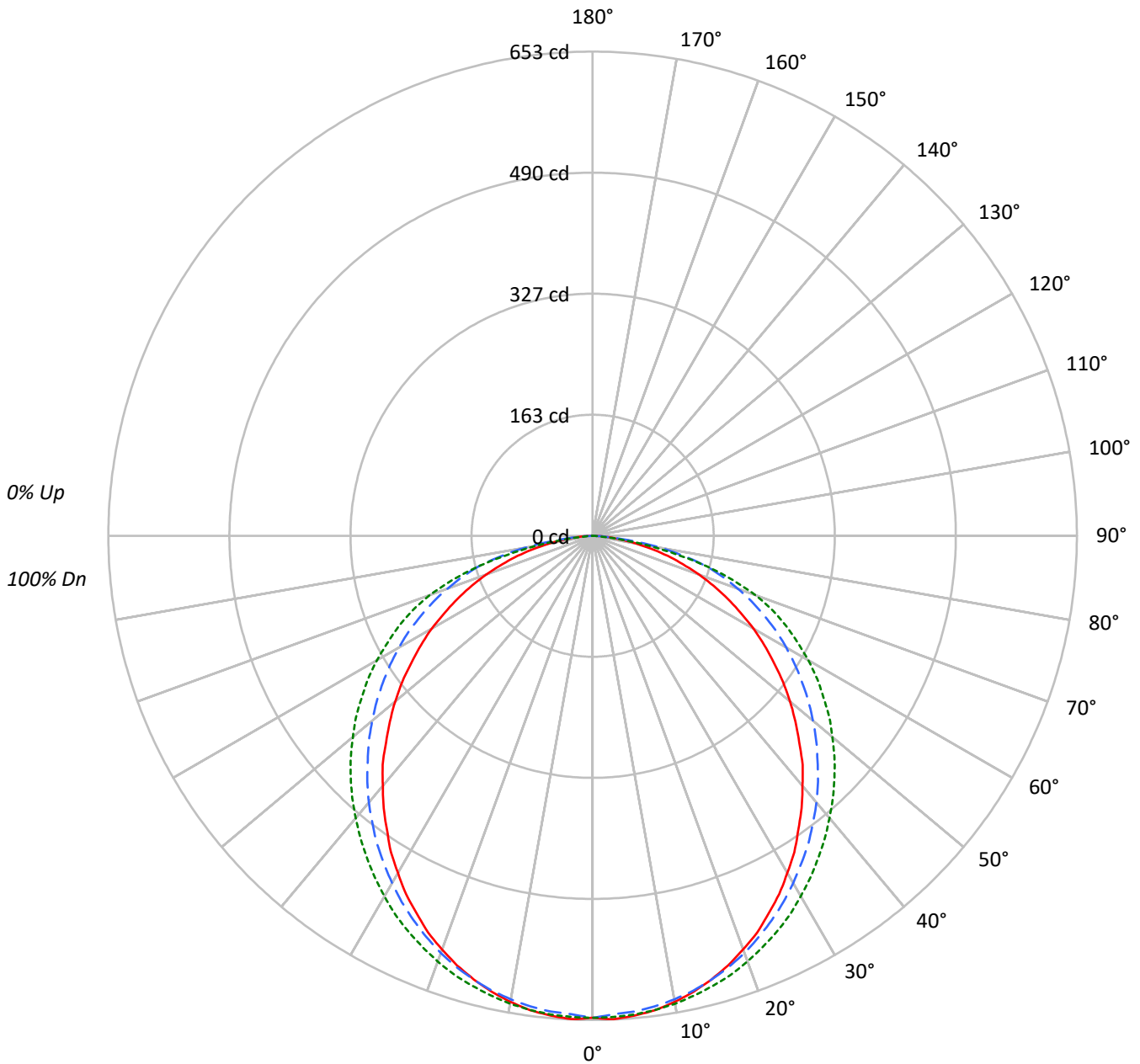
Lumens per Lamp: N/A
Luminaire Lumens: 1887.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732412

CATALOG NUMBER: 14FCZ2-20-B2750-W2D-CA08-3000K

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°	1835	1835	1835
5°	1841	1825	1836
10°	1830	1820	1837
15°	1810	1811	1836
20°	1783	1799	1835
25°	1749	1781	1833
30°	1711	1762	1830
35°	1666	1747	1828
40°	1622	1730	1831
45°	1572	1711	1841
50°	1526	1703	1853
55°	1468	1698	1870
60°	1416	1701	1896
65°	1343	1706	1925
70°	1261	1719	1924
75°	1142	1734	1740
80°	938	1497	1237
85°	693	709	285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	3.3
10°-20°	175.7	9.3
20°-30°	264.7	14.0
30°-40°	317.7	16.8
40°-50°	331.1	17.5
50°-60°	306.5	16.2
60°-70°	247.6	13.1
70°-80°	151.0	8.0
80°-90°	31.2	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°	501.9	26.6
0°-40°	819.6	43.4
0°-60°	1457.2	77.2
0°-90°	1887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1887.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	650	648	644	649	648	62
15°	619	620	620	628	628	175
25°	562	565	572	586	589	259
35°	484	491	507	526	530	303
45°	394	406	429	453	461	304
55°	298	314	345	372	380	267
65°	201	221	255	281	288	199
75°	105	128	159	162	160	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°	650.1	650.1	650.1	650.1	650.1
2.5°	652.6	650.6	645.9	650.6	649.6
5°	649.6	648.0	644.2	648.8	648.0
7.5°	645.5	643.7	640.4	645.9	645.0
10°	638.3	637.5	634.9	641.3	640.8
12.5°	629.9	629.5	628.2	635.4	634.9
15°	619.4	619.7	619.7	628.2	628.2
17.5°	607.6	608.4	610.1	619.4	620.7
20°	593.7	595.4	598.8	609.3	610.9
22.5°	579.4	580.7	585.7	598.3	600.0
25°	561.7	565.1	571.8	586.1	588.7
27.5°	544.9	547.8	557.1	571.8	576.1
30°	525.1	529.7	540.7	556.7	561.4
32.5°	506.2	511.2	523.8	542.4	546.5
35°	483.5	491.0	507.0	525.6	530.5
37.5°	462.9	470.0	488.1	508.3	514.2
40°	440.1	449.0	469.6	491.0	496.9
42.5°	419.1	427.4	449.8	471.7	479.7
45°	393.9	405.7	428.7	452.7	461.2
47.5°	370.7	382.5	409.0	434.6	442.3
50°	347.5	360.1	387.9	414.5	422.0
52.5°	323.5	337.1	366.9	393.4	402.3
55°	298.3	313.9	345.1	372.0	380.0
57.5°	274.3	290.3	323.5	350.9	358.9
60°	250.8	267.2	301.3	327.4	335.8
62.5°	224.7	244.1	279.4	305.0	311.4
65°	201.1	220.9	255.4	281.0	288.2
67.5°	176.3	197.7	232.3	255.8	262.6
70°	152.8	175.0	208.3	230.2	233.1
72.5°	127.5	150.2	183.8	197.7	197.7
75°	104.7	127.9	159.0	161.6	159.5
77.5°	79.9	105.6	125.8	120.7	115.7
80°	57.7	82.9	92.1	82.9	76.1
82.5°	38.7	60.1	55.5	44.1	39.2
85°	21.4	32.0	21.9	12.2	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)