

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: P732555

Luminaire Tested: **14FCZ2-25-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732555
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: 14FCZ2-25-B2750-W2D-CP250-5000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

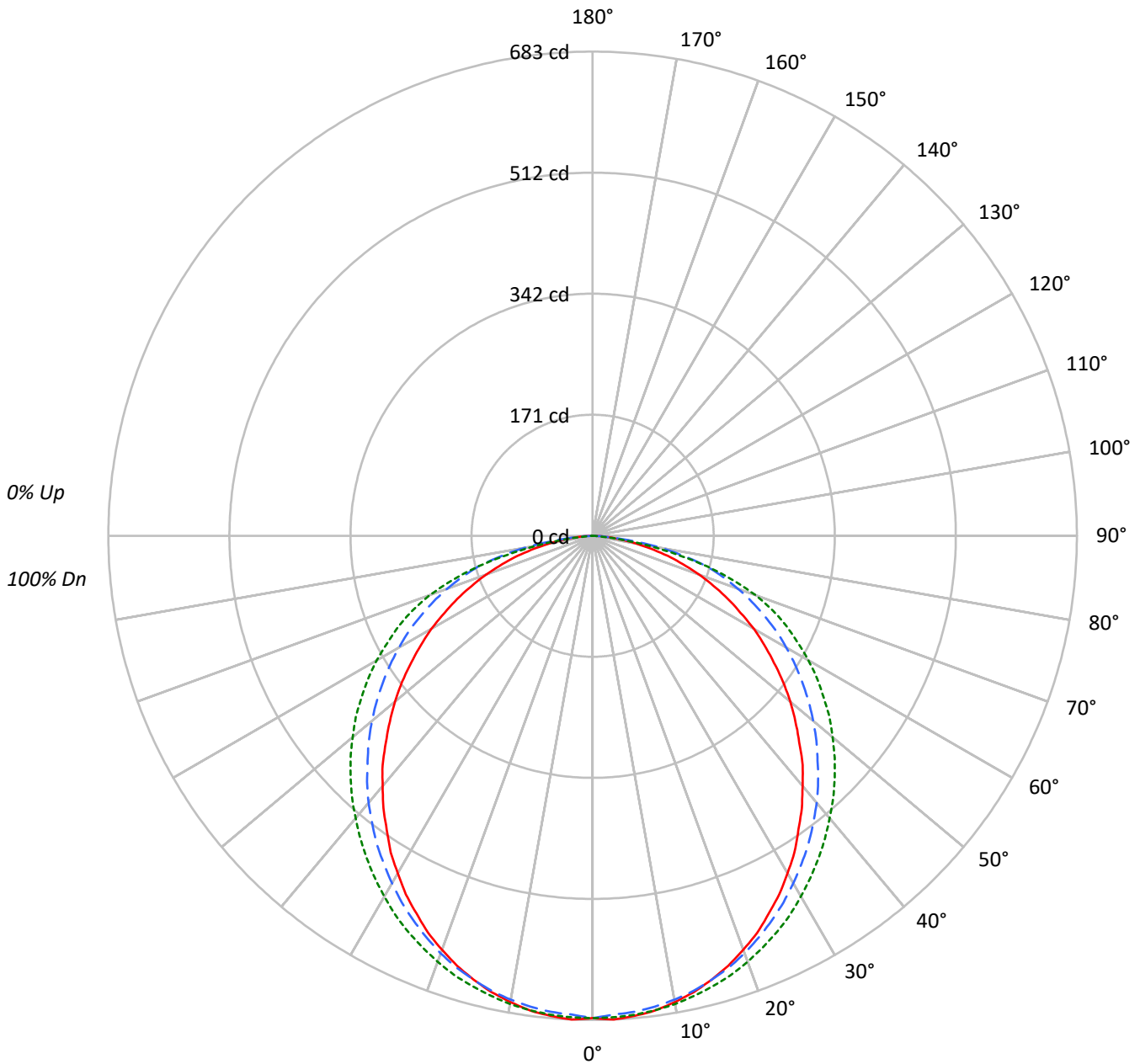
Lumens per Lamp: N/A
Luminaire Lumens: 1975.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
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	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°	1921	1921	1921
5°	1926	1910	1922
10°	1915	1905	1922
15°	1894	1895	1921
20°	1867	1883	1921
25°	1831	1864	1919
30°	1791	1845	1915
35°	1744	1829	1913
40°	1697	1811	1916
45°	1645	1791	1927
50°	1597	1783	1940
55°	1536	1778	1957
60°	1482	1780	1984
65°	1406	1785	2014
70°	1320	1799	2013
75°	1195	1816	1820
80°	982	1567	1296
85°	725	742	298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	3.3
10°-20°	183.9	9.3
20°-30°	277.0	14.0
30°-40°	332.5	16.8
40°-50°	346.5	17.5
50°-60°	320.8	16.2
60°-70°	259.2	13.1
70°-80°	158.0	8.0
80°-90°	32.6	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°	525.3	26.6
0°-40°	857.8	43.4
0°-60°	1525.1	77.2
0°-90°	1975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1975.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	680	680	680	680	680	
5°	680	678	674	679	678	65
15°	648	649	649	658	658	183
25°	588	591	598	614	616	271
35°	506	514	531	550	555	317
45°	412	425	449	474	483	319
55°	312	329	361	389	398	280
65°	210	231	267	294	302	208
75°	110	134	166	169	167	115
85°	22	34	23	13	9	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.4	680.4	680.4	680.4	680.4
2.5°	683.1	680.9	676.0	680.9	679.9
5°	679.9	678.2	674.2	679.1	678.2
7.5°	675.6	673.7	670.2	676.0	675.1
10°	668.0	667.2	664.5	671.2	670.7
12.5°	659.3	658.8	657.5	665.0	664.5
15°	648.3	648.6	648.6	657.5	657.5
17.5°	635.9	636.8	638.6	648.3	649.6
20°	621.4	623.2	626.7	637.7	639.4
22.5°	606.4	607.8	613.0	626.2	628.0
25°	587.9	591.4	598.4	613.5	616.1
27.5°	570.3	573.3	583.0	598.4	602.9
30°	549.6	554.4	566.0	582.7	587.5
32.5°	529.8	535.0	548.3	567.7	572.0
35°	506.1	513.9	530.7	550.1	555.3
37.5°	484.5	491.9	510.9	532.0	538.2
40°	460.6	469.9	491.5	513.9	520.1
42.5°	438.6	447.4	470.8	493.7	502.1
45°	412.2	424.6	448.7	473.8	482.7
47.5°	388.0	400.3	428.1	454.9	462.9
50°	363.7	376.9	406.0	433.8	441.7
52.5°	338.6	352.8	384.0	411.7	421.1
55°	312.2	328.6	361.2	389.3	397.7
57.5°	287.1	303.8	338.6	367.2	375.6
60°	262.5	279.7	315.3	342.6	351.5
62.5°	235.2	255.5	292.4	319.2	325.9
65°	210.5	231.2	267.3	294.1	301.6
67.5°	184.5	207.0	243.1	267.7	274.9
70°	159.9	183.2	218.0	240.9	243.9
72.5°	133.5	157.2	192.4	207.0	207.0
75°	109.6	133.9	166.5	169.1	166.9
77.5°	83.7	110.6	131.7	126.3	121.1
80°	60.4	86.8	96.4	86.8	79.7
82.5°	40.5	62.9	58.1	46.2	41.0
85°	22.4	33.5	22.9	12.7	9.2
87.5°	8.4	7.5	2.2	2.2	2.2
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)