

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: P732552

Luminaire Tested: **14FCZ2-25-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732552
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-CP250-3000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

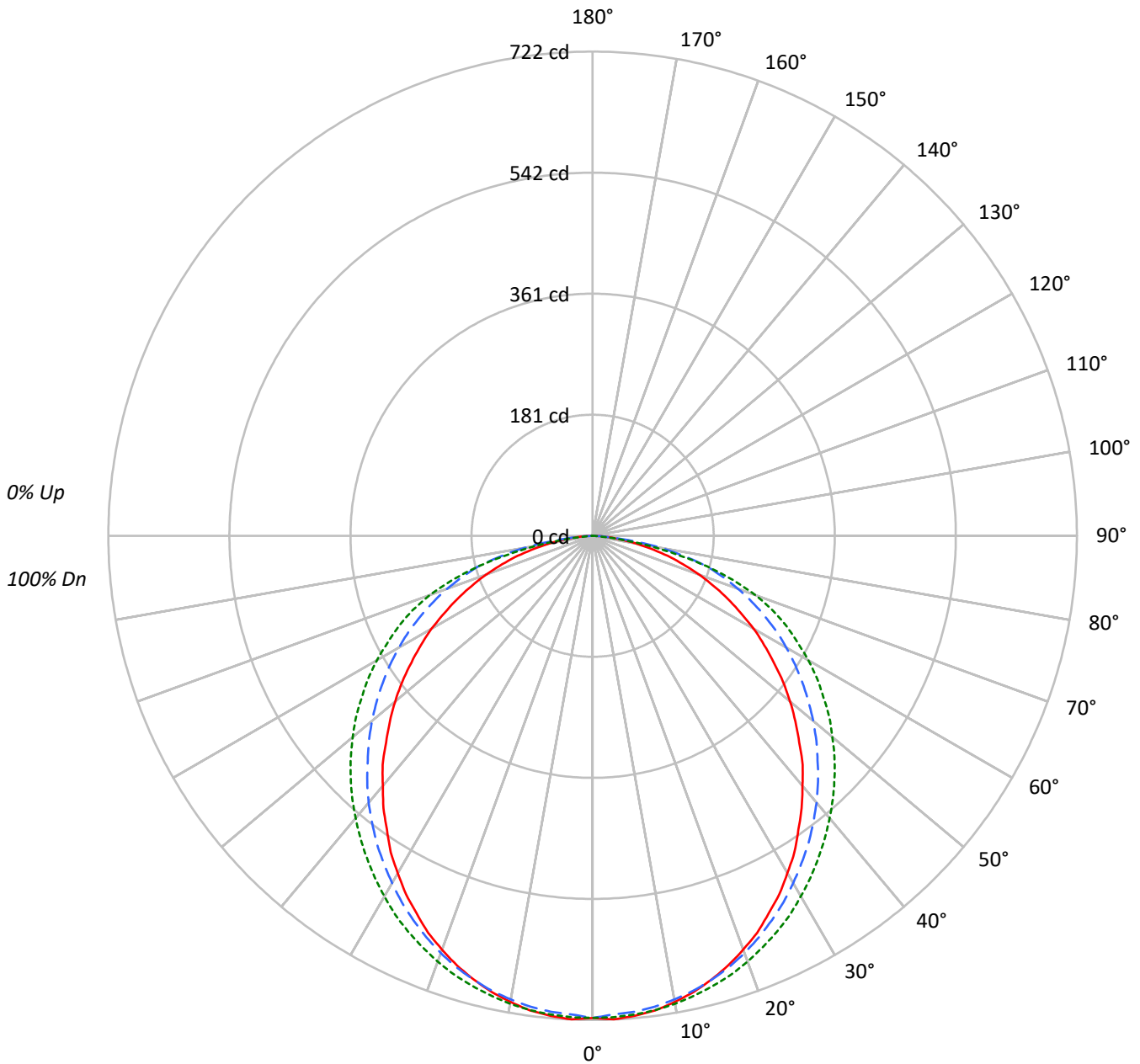
Lumens per Lamp: N/A
Luminaire Lumens: 2087.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (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

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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°	2030	2030	2030
5°	2036	2019	2031
10°	2023	2013	2031
15°	2002	2003	2030
20°	1972	1989	2030
25°	1935	1970	2028
30°	1893	1949	2024
35°	1843	1932	2022
40°	1793	1914	2025
45°	1739	1893	2036
50°	1688	1884	2049
55°	1624	1878	2068
60°	1566	1881	2097
65°	1485	1887	2129
70°	1395	1901	2128
75°	1263	1918	1924
80°	1037	1656	1369
85°	768	784	314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	3.3
10°-20°	194.3	9.3
20°-30°	292.8	14.0
30°-40°	351.3	16.8
40°-50°	366.2	17.5
50°-60°	339.0	16.2
60°-70°	273.9	13.1
70°-80°	167.0	8.0
80°-90°	34.5	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°	555.2	26.6
0°-40°	906.5	43.4
0°-60°	1611.7	77.2
0°-90°	2087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	718	717	712	718	717	68
15°	685	685	685	695	695	193
25°	621	625	632	648	651	286
35°	535	543	561	581	587	335
45°	436	449	474	501	510	337
55°	330	347	382	411	420	296
65°	222	244	282	311	319	220
75°	116	141	176	179	176	122
85°	24	35	24	14	10	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	719.0	719.0	719.0	719.0	719.0
2.5°	721.8	719.5	714.4	719.5	718.5
5°	718.5	716.7	712.5	717.6	716.7
7.5°	713.9	711.9	708.2	714.4	713.4
10°	705.9	705.0	702.2	709.3	708.7
12.5°	696.7	696.2	694.8	702.7	702.2
15°	685.0	685.4	685.4	694.8	694.8
17.5°	672.0	672.9	674.8	685.0	686.4
20°	656.6	658.5	662.2	673.9	675.7
22.5°	640.8	642.2	647.8	661.7	663.6
25°	621.2	625.0	632.4	648.3	651.1
27.5°	602.7	605.9	616.1	632.4	637.1
30°	580.8	585.9	598.0	615.7	620.9
32.5°	559.9	565.4	579.3	599.8	604.5
35°	534.8	543.1	560.8	581.3	586.8
37.5°	512.0	519.8	539.9	562.2	568.7
40°	486.7	496.6	519.4	543.1	549.6
42.5°	463.5	472.7	497.5	521.7	530.5
45°	435.6	448.7	474.2	500.7	510.0
47.5°	410.0	423.0	452.4	480.7	489.1
50°	384.3	398.3	429.1	458.4	466.7
52.5°	357.8	372.8	405.7	435.1	444.9
55°	329.9	347.2	381.7	411.4	420.2
57.5°	303.4	321.1	357.8	388.1	396.9
60°	277.4	295.6	333.2	362.1	371.4
62.5°	248.5	269.9	309.0	337.3	344.4
65°	222.4	244.3	282.5	310.8	318.8
67.5°	195.0	218.7	256.9	282.9	290.4
70°	169.0	193.6	230.4	254.6	257.8
72.5°	141.1	166.2	203.3	218.7	218.7
75°	115.8	141.4	175.9	178.7	176.4
77.5°	88.4	116.8	139.1	133.5	128.0
80°	63.8	91.7	101.9	91.7	84.2
82.5°	42.8	66.5	61.4	48.8	43.3
85°	23.7	35.4	24.2	13.5	9.7
87.5°	8.8	7.9	2.3	2.3	2.3
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)