

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: P732540

Luminaire Tested: **14FCZ2-25-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732540
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-CA08-5000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

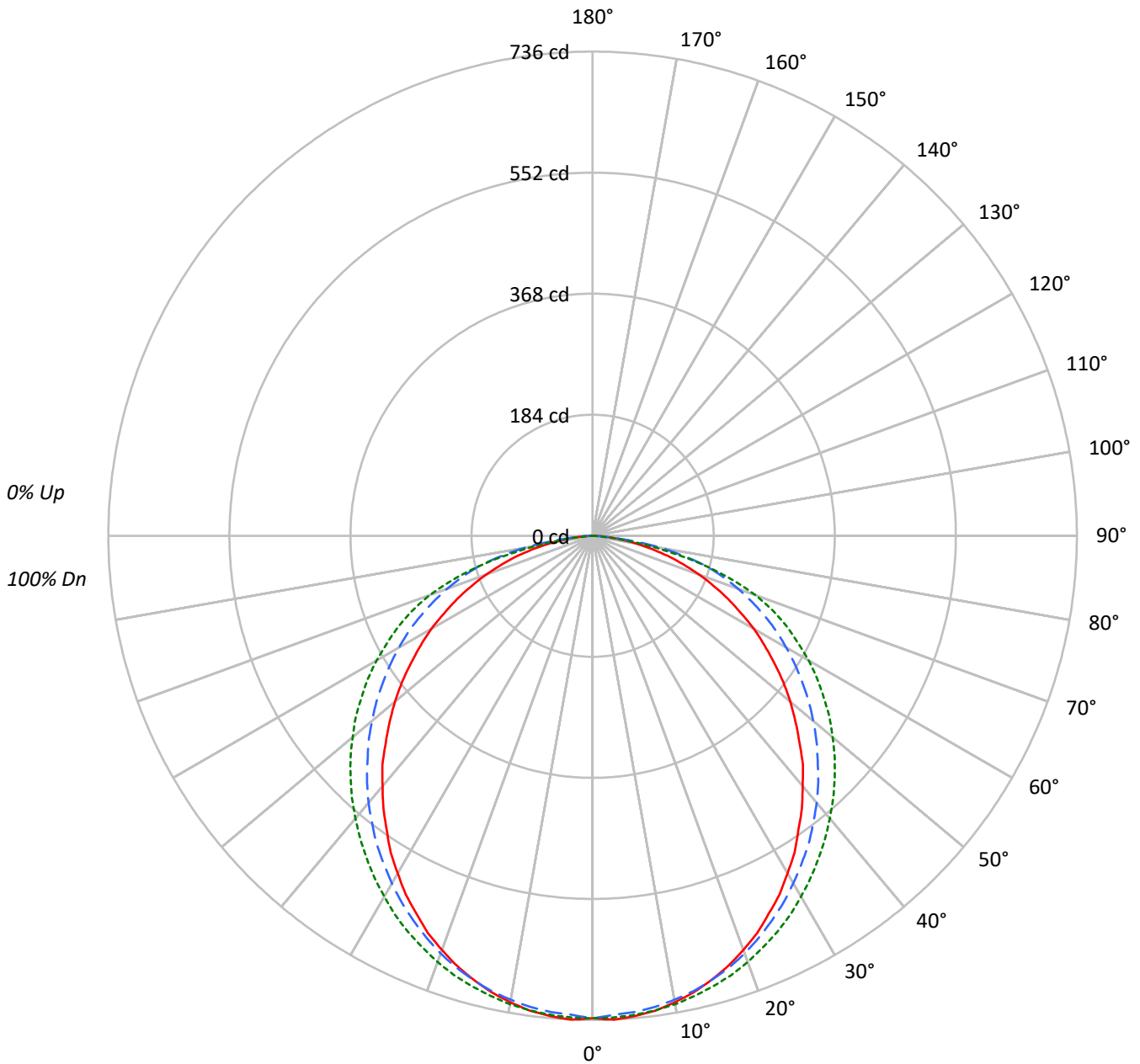
Lumens per Lamp: N/A
Luminaire Lumens: 2129.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2070	2070	2070
5°	2077	2059	2072
10°	2064	2053	2072
15°	2042	2043	2071
20°	2012	2029	2071
25°	1974	2009	2069
30°	1931	1989	2064
35°	1880	1971	2063
40°	1829	1952	2066
45°	1774	1931	2077
50°	1722	1922	2091
55°	1656	1916	2110
60°	1598	1919	2139
65°	1515	1925	2172
70°	1423	1939	2171
75°	1288	1957	1963
80°	1058	1689	1396
85°	784	800	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	3.3
10°-20°	198.3	9.3
20°-30°	298.7	14.0
30°-40°	358.4	16.8
40°-50°	373.6	17.5
50°-60°	345.8	16.2
60°-70°	279.4	13.1
70°-80°	170.4	8.0
80°-90°	35.2	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°	566.3	26.6
0°-40°	924.7	43.4
0°-60°	1644.1	77.2
0°-90°	2129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2129.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	733	731	727	732	731	70
15°	699	699	699	709	709	197
25°	634	638	645	661	664	292
35°	546	554	572	593	599	342
45°	444	458	484	511	520	343
55°	336	354	389	420	429	302
65°	227	249	288	317	325	224
75°	118	144	179	182	180	124
85°	24	36	25	14	10	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	733.5	733.5	733.5	733.5	733.5
2.5°	736.3	734.0	728.8	734.0	732.9
5°	732.9	731.1	726.8	732.0	731.1
7.5°	728.2	726.3	722.5	728.8	727.7
10°	720.1	719.2	716.3	723.5	723.0
12.5°	710.7	710.2	708.8	716.9	716.3
15°	698.8	699.2	699.2	708.8	708.8
17.5°	685.5	686.4	688.4	698.8	700.3
20°	669.8	671.8	675.6	687.5	689.3
22.5°	653.7	655.2	660.8	675.0	677.0
25°	633.7	637.5	645.1	661.3	664.2
27.5°	614.8	618.1	628.5	645.1	649.9
30°	592.4	597.7	610.1	628.1	633.3
32.5°	571.1	576.8	591.0	611.9	616.6
35°	545.5	554.0	572.1	593.0	598.6
37.5°	522.3	530.2	550.7	573.5	580.2
40°	496.5	506.6	529.8	554.0	560.7
42.5°	472.9	482.3	507.5	532.2	541.2
45°	444.4	457.7	483.7	510.8	520.3
47.5°	418.2	431.6	461.5	490.4	499.0
50°	392.1	406.3	437.7	467.6	476.1
52.5°	365.0	380.3	413.9	443.8	453.9
55°	336.5	354.2	389.3	419.7	428.7
57.5°	309.5	327.5	365.0	395.9	404.9
60°	283.0	301.5	339.9	369.3	378.9
62.5°	253.5	275.4	315.2	344.1	351.3
65°	226.9	249.2	288.2	317.1	325.2
67.5°	198.9	223.1	262.0	288.6	296.3
70°	172.4	197.5	235.0	259.7	263.0
72.5°	143.9	169.5	207.4	223.1	223.1
75°	118.1	144.3	179.4	182.3	180.0
77.5°	90.2	119.2	141.9	136.2	130.6
80°	65.1	93.6	103.9	93.6	85.9
82.5°	43.7	67.8	62.6	49.8	44.2
85°	24.2	36.1	24.7	13.7	9.9
87.5°	9.0	8.1	2.4	2.4	2.4
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)