

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: P732551

Luminaire Tested: **14FCZ2-25-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732551
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-CP250-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

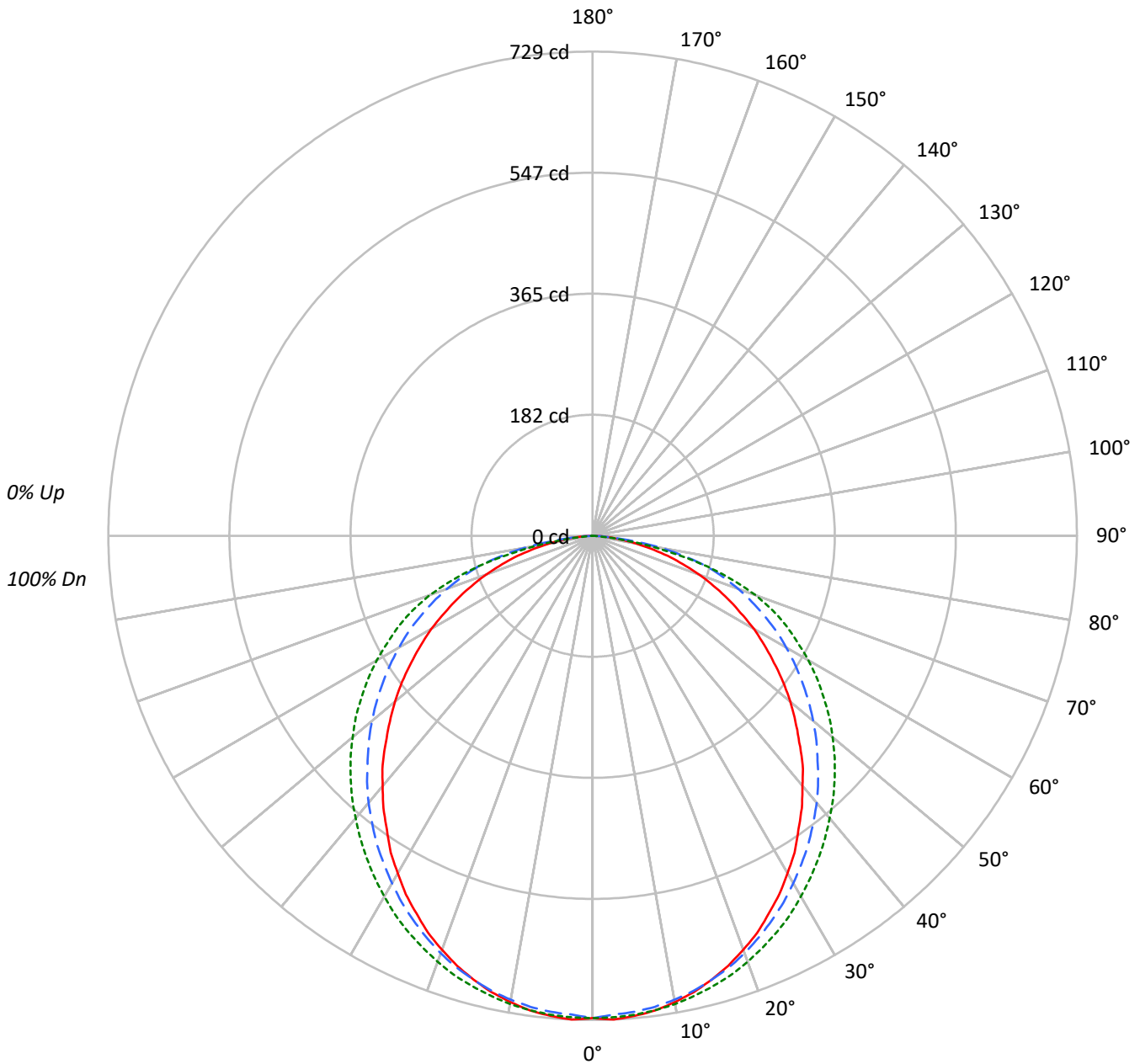
Lumens per Lamp: N/A
Luminaire Lumens: 2108.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2050	2050	2050
5°	2056	2039	2051
10°	2044	2033	2052
15°	2022	2023	2051
20°	1992	2009	2050
25°	1954	1989	2048
30°	1912	1969	2044
35°	1861	1952	2042
40°	1811	1933	2045
45°	1756	1912	2057
50°	1705	1903	2070
55°	1640	1897	2089
60°	1582	1900	2118
65°	1500	1906	2151
70°	1409	1920	2149
75°	1276	1938	1943
80°	1047	1673	1382
85°	774	793	317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	3.3
10°-20°	196.3	9.3
20°-30°	295.7	14.0
30°-40°	354.9	16.8
40°-50°	369.9	17.5
50°-60°	342.4	16.2
60°-70°	276.6	13.1
70°-80°	168.7	8.0
80°-90°	34.8	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°	560.7	26.6
0°-40°	915.6	43.4
0°-60°	1627.9	77.2
0°-90°	2108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	726	724	720	725	724	69
15°	692	692	692	702	702	195
25°	628	631	639	655	658	289
35°	540	549	566	587	593	338
45°	440	453	479	506	515	340
55°	333	351	386	416	424	299
65°	225	247	285	314	322	222
75°	117	143	178	180	178	123
85°	24	36	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°	726.2	726.2	726.2	726.2	726.2
2.5°	729.1	726.7	721.6	726.7	725.7
5°	725.7	723.9	719.6	724.8	723.9
7.5°	721.0	719.1	715.4	721.6	720.5
10°	713.0	712.1	709.3	716.4	715.9
12.5°	703.7	703.2	701.8	709.8	709.3
15°	691.9	692.3	692.3	701.8	701.8
17.5°	678.7	679.6	681.6	691.9	693.4
20°	663.2	665.1	668.9	680.7	682.5
22.5°	647.3	648.7	654.3	668.4	670.3
25°	627.5	631.2	638.7	654.8	657.6
27.5°	608.7	612.0	622.3	638.7	643.5
30°	586.6	591.8	604.1	621.9	627.1
32.5°	565.5	571.1	585.2	605.9	610.5
35°	540.1	548.6	566.4	587.1	592.7
37.5°	517.1	525.0	545.3	567.8	574.4
40°	491.6	501.6	524.6	548.6	555.1
42.5°	468.2	477.5	502.5	526.9	535.9
45°	440.0	453.2	478.9	505.7	515.2
47.5°	414.1	427.3	456.9	485.5	494.1
50°	388.2	402.3	433.4	463.0	471.4
52.5°	361.4	376.6	409.8	439.5	449.4
55°	333.2	350.7	385.5	415.5	424.5
57.5°	306.4	324.3	361.4	392.0	400.9
60°	280.2	298.5	336.6	365.7	375.1
62.5°	251.0	272.7	312.1	340.7	347.8
65°	224.6	246.8	285.3	313.9	322.0
67.5°	197.0	220.9	259.5	285.7	293.4
70°	170.7	195.5	232.7	257.1	260.4
72.5°	142.5	167.8	205.4	220.9	220.9
75°	117.0	142.9	177.7	180.5	178.2
77.5°	89.3	118.0	140.5	134.8	129.3
80°	64.4	92.7	102.9	92.7	85.0
82.5°	43.2	67.2	62.0	49.3	43.7
85°	23.9	35.7	24.5	13.6	9.8
87.5°	8.9	8.0	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)