

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: P732428

Luminaire Tested: **14FCZ2-20-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732428
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-CP250-3500K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

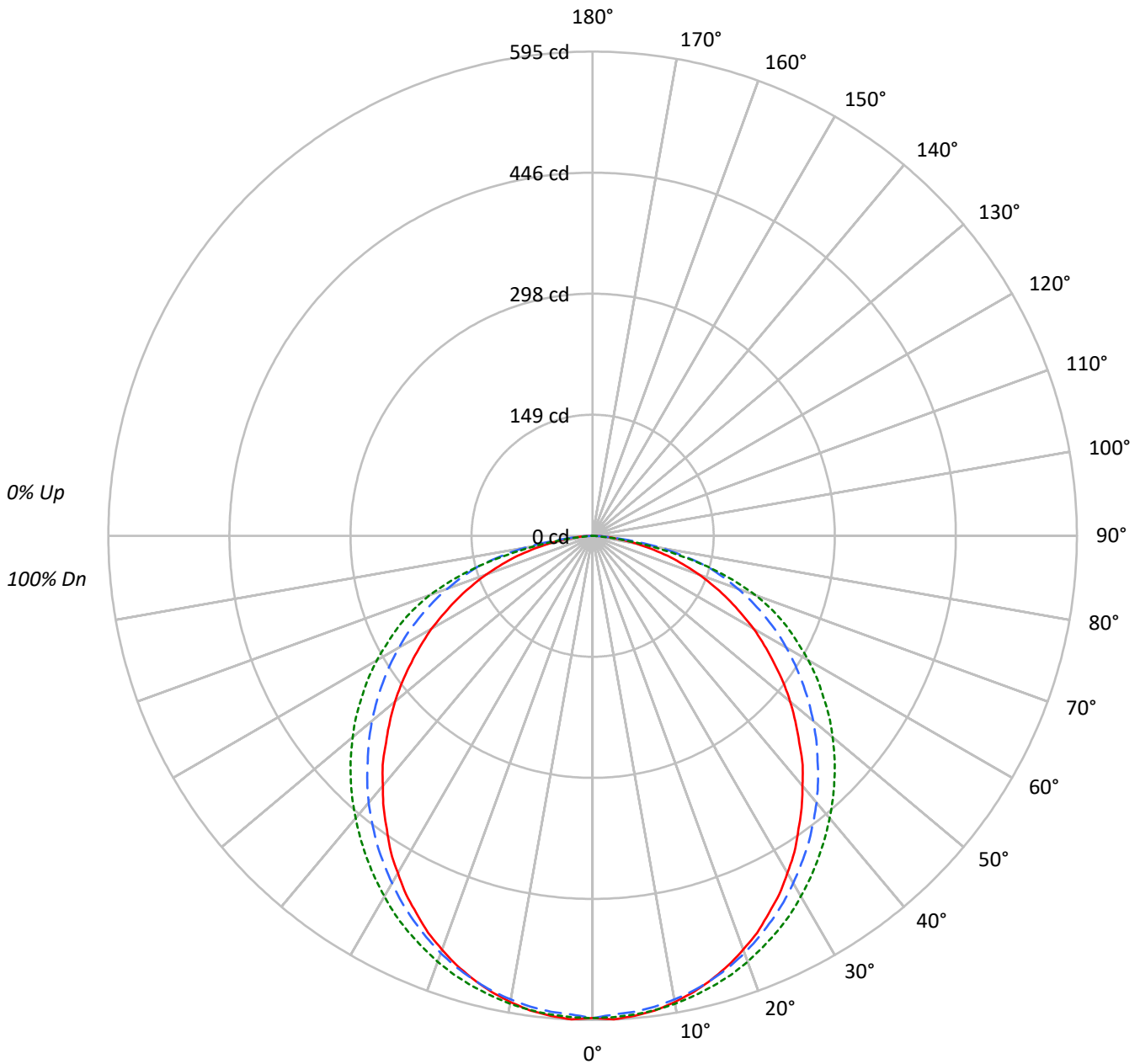
Lumens per Lamp: N/A
Luminaire Lumens: 1720.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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°	1673	1673	1673
5°	1678	1664	1674
10°	1668	1659	1674
15°	1650	1651	1673
20°	1625	1639	1673
25°	1595	1623	1671
30°	1560	1607	1668
35°	1519	1593	1666
40°	1478	1577	1669
45°	1433	1560	1678
50°	1391	1553	1689
55°	1338	1548	1704
60°	1291	1550	1728
65°	1224	1555	1755
70°	1150	1566	1753
75°	1042	1581	1586
80°	855	1364	1128
85°	632	648	259



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	3.3
10°-20°	160.2	9.3
20°-30°	241.3	14.0
30°-40°	289.6	16.8
40°-50°	301.8	17.5
50°-60°	279.4	16.2
60°-70°	225.7	13.1
70°-80°	137.6	8.0
80°-90°	28.4	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°	457.5	26.6
0°-40°	747.1	43.4
0°-60°	1328.2	77.2
0°-90°	1720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1720.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	593	593	593	593	593	
5°	592	591	587	591	591	56
15°	565	565	565	573	573	159
25°	512	515	521	534	537	236
35°	441	448	462	479	484	276
45°	359	370	391	413	420	277
55°	272	286	314	339	346	244
65°	183	201	233	256	263	181
75°	96	117	145	147	145	100
85°	20	29	20	11	8	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	592.6	592.6	592.6	592.6	592.6
2.5°	594.9	593.0	588.8	593.0	592.1
5°	592.1	590.7	587.2	591.4	590.7
7.5°	588.3	586.7	583.7	588.8	587.9
10°	581.8	581.0	578.7	584.5	584.1
12.5°	574.2	573.8	572.6	579.1	578.7
15°	564.6	564.9	564.9	572.6	572.6
17.5°	553.8	554.5	556.1	564.6	565.7
20°	541.1	542.7	545.8	555.4	556.9
22.5°	528.1	529.3	533.8	545.4	546.9
25°	512.0	515.1	521.2	534.3	536.6
27.5°	496.7	499.3	507.8	521.2	525.1
30°	478.6	482.8	492.9	507.5	511.7
32.5°	461.4	466.0	477.5	494.4	498.2
35°	440.7	447.6	462.2	479.0	483.6
37.5°	421.9	428.4	444.9	463.3	468.7
40°	401.1	409.3	428.1	447.6	453.0
42.5°	382.0	389.6	410.0	430.0	437.2
45°	359.0	369.8	390.8	412.6	420.3
47.5°	337.9	348.6	372.8	396.2	403.1
50°	316.8	328.3	353.6	377.8	384.7
52.5°	294.9	307.3	334.4	358.6	366.7
55°	271.9	286.1	314.5	339.0	346.3
57.5°	250.0	264.6	294.9	319.8	327.1
60°	228.6	243.6	274.6	298.4	306.1
62.5°	204.8	222.5	254.7	278.0	283.8
65°	183.3	201.4	232.8	256.2	262.7
67.5°	160.7	180.2	211.7	233.1	239.4
70°	139.3	159.5	189.8	209.8	212.4
72.5°	116.3	136.9	167.6	180.2	180.2
75°	95.5	116.6	145.0	147.3	145.4
77.5°	72.9	96.3	114.7	110.0	105.5
80°	52.6	75.6	83.9	75.6	69.4
82.5°	35.3	54.8	50.6	40.2	35.7
85°	19.5	29.1	20.0	11.1	8.0
87.5°	7.3	6.5	1.9	1.9	1.9
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)