

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: P732577

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

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-HRP-B2750-W2D-CP250-3000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

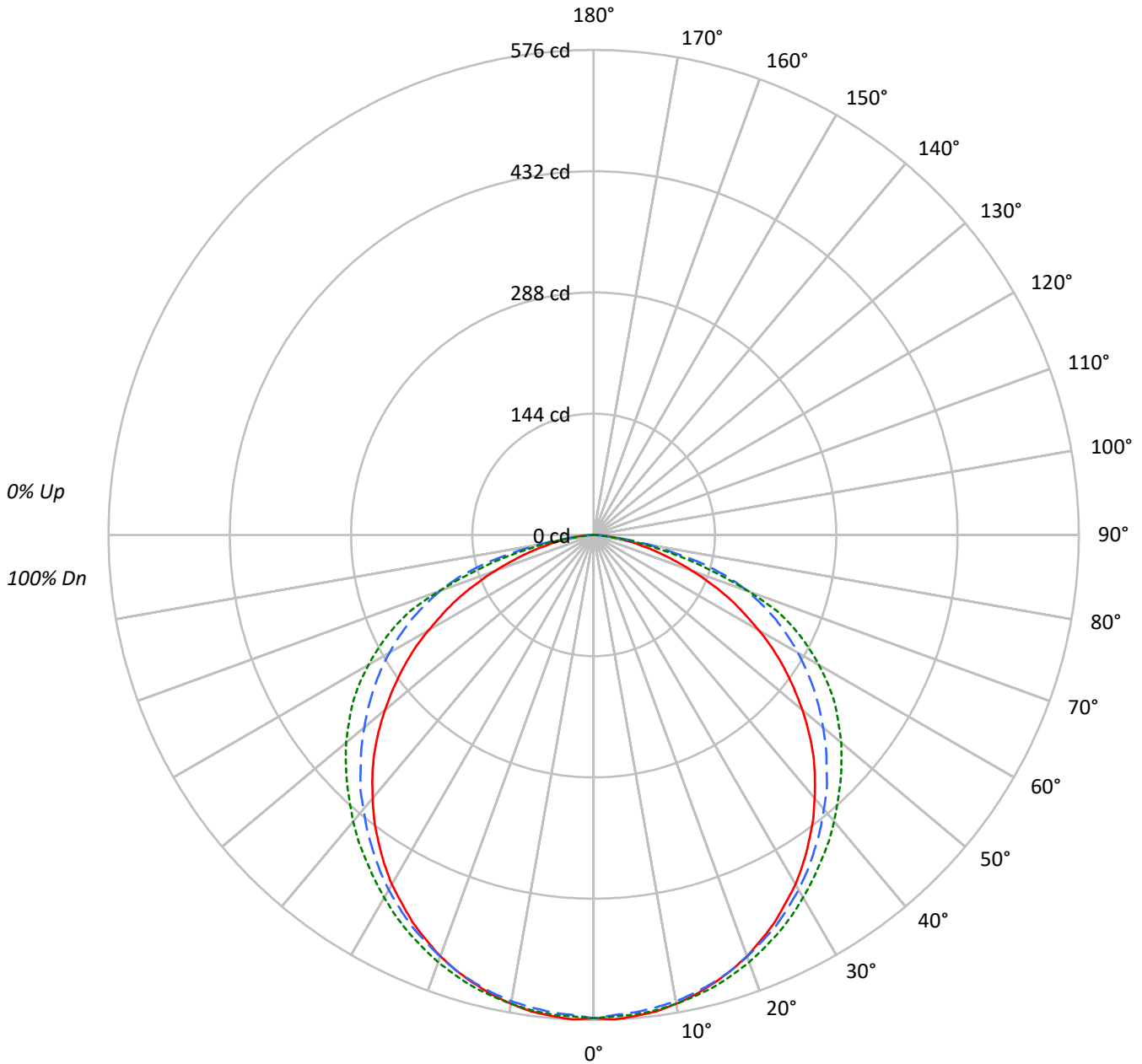
Lumens per Lamp: N/A
Luminaire Lumens: 1690.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1620	1620	1620
5°	1625	1613	1620
10°	1621	1612	1621
15°	1610	1608	1623
20°	1599	1601	1622
25°	1582	1596	1622
30°	1562	1586	1621
35°	1534	1575	1624
40°	1504	1566	1637
45°	1472	1561	1655
50°	1421	1561	1685
55°	1360	1569	1721
60°	1278	1581	1743
65°	1178	1597	1753
70°	1027	1600	1613
75°	846	1490	1304
80°	665	1071	873
85°	518	415	204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	3.2
10°-20°	155.9	9.2
20°-30°	236.8	14.0
30°-40°	286.9	17.0
40°-50°	302.3	17.9
50°-60°	282.2	16.7
60°-70°	225.5	13.3
70°-80°	124.1	7.3
80°-90°	21.9	1.3
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°	447.0	26.4
0°-40°	733.9	43.4
0°-60°	1318.4	78.0
0°-90°	1690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1690.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	574	572	569	573	572	55
15°	551	551	550	555	555	156
25°	508	509	512	520	521	234
35°	445	450	457	469	471	279
45°	369	376	391	409	414	284
55°	276	290	319	341	350	247
65°	176	199	239	259	262	174
75°	78	111	137	123	120	84
85°	16	20	13	8	6	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	573.9	573.9	573.9	573.9	573.9
2.5°	576.0	574.4	570.8	573.9	572.4
5°	573.5	571.8	569.2	572.9	571.8
7.5°	570.8	568.6	565.9	570.2	569.2
10°	565.4	563.8	562.3	565.9	565.4
12.5°	559.1	558.5	556.9	561.2	560.7
15°	551.1	551.1	550.1	555.3	555.3
17.5°	542.5	542.0	542.5	548.4	547.9
20°	532.4	532.4	533.0	540.0	540.0
22.5°	520.2	520.7	522.4	530.8	530.3
25°	508.1	509.0	512.3	519.7	520.7
27.5°	493.2	495.9	499.5	508.5	509.6
30°	479.3	480.9	486.7	495.3	497.3
32.5°	462.9	466.0	472.5	482.0	484.7
35°	445.3	449.6	457.0	468.7	471.4
37.5°	427.8	431.6	441.7	453.8	458.6
40°	408.2	414.5	425.1	439.0	444.2
42.5°	388.9	395.4	409.8	424.0	428.9
45°	368.8	375.8	391.1	408.7	414.5
47.5°	346.4	354.5	374.1	392.7	399.0
50°	323.6	333.7	355.5	376.3	383.7
52.5°	299.8	312.4	337.4	359.2	366.2
55°	276.4	290.1	318.9	341.2	349.7
57.5°	252.4	267.4	299.8	325.2	330.0
60°	226.3	244.5	280.0	302.3	308.8
62.5°	200.9	221.6	259.8	281.1	286.5
65°	176.4	198.8	239.1	258.8	262.5
67.5°	149.8	176.4	216.3	234.4	235.4
70°	124.4	155.2	193.9	202.4	195.5
72.5°	99.4	132.3	168.0	161.0	155.2
75°	77.6	111.1	136.6	122.8	119.6
77.5°	57.4	90.9	97.8	90.4	84.5
80°	40.9	71.7	65.9	56.4	53.7
82.5°	28.1	45.2	36.2	28.1	24.5
85°	16.0	20.2	12.8	7.9	6.3
87.5°	6.9	4.8	2.7	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)