

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: P732573

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732573
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-CP187-3500K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND HRP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

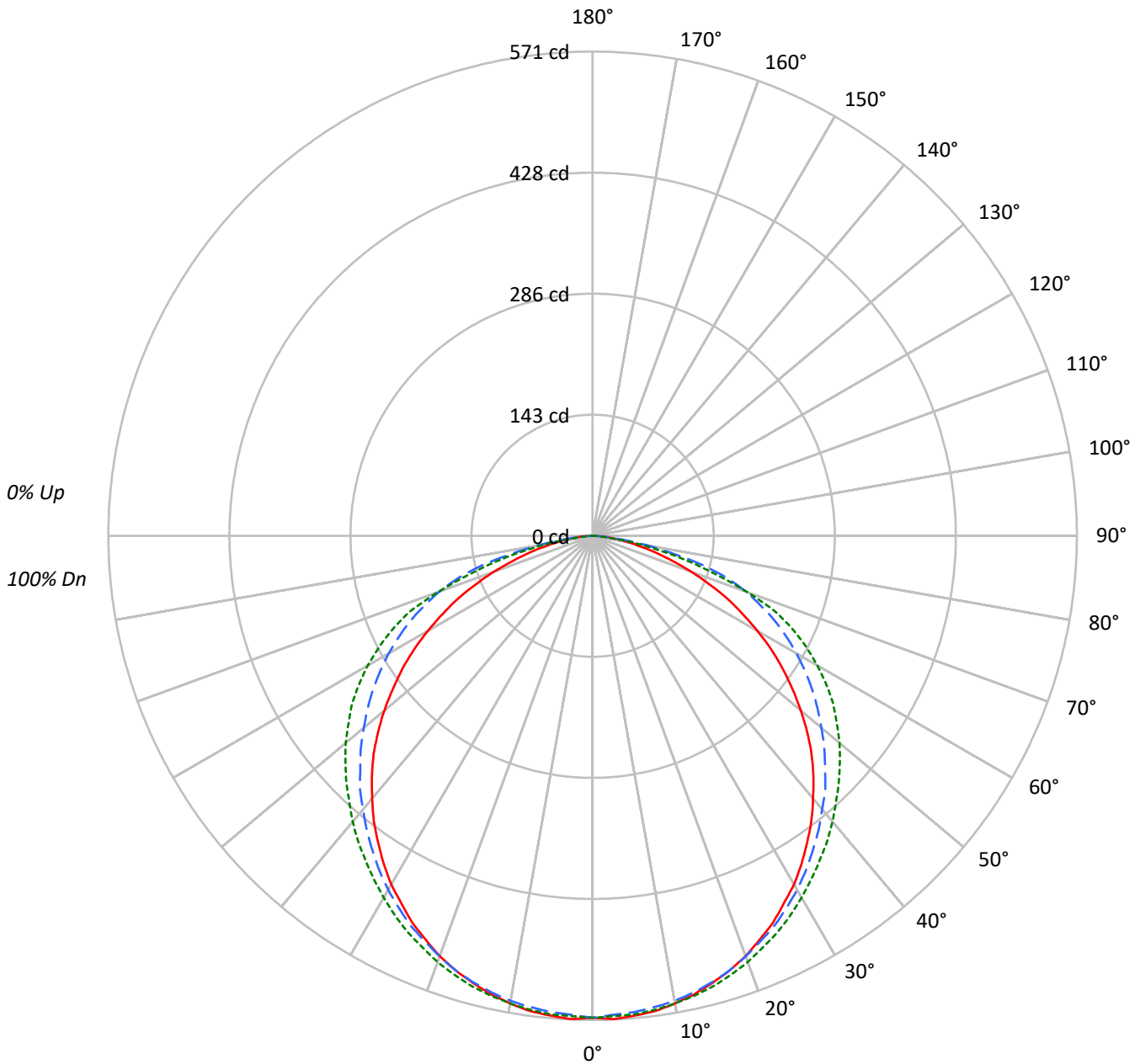
Lumens per Lamp: N/A
Luminaire Lumens: 1674.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1604	1604	1604
5°	1609	1598	1605
10°	1605	1596	1605
15°	1595	1592	1607
20°	1584	1586	1607
25°	1568	1580	1606
30°	1548	1571	1606
35°	1520	1560	1609
40°	1490	1552	1621
45°	1458	1546	1639
50°	1407	1546	1669
55°	1347	1555	1705
60°	1266	1566	1727
65°	1167	1582	1737
70°	1017	1585	1599
75°	839	1476	1291
80°	658	1061	865
85°	515	411	204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	3.2
10°-20°	154.4	9.2
20°-30°	234.5	14.0
30°-40°	284.2	17.0
40°-50°	299.5	17.9
50°-60°	279.6	16.7
60°-70°	223.4	13.3
70°-80°	122.9	7.3
80°-90°	21.7	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°	442.8	26.4
0°-40°	726.9	43.4
0°-60°	1306.0	78.0
0°-90°	1674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1674.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	568	566	564	568	566	54
15°	546	546	545	550	550	154
25°	503	504	507	515	516	232
35°	441	445	453	464	467	276
45°	365	372	387	405	411	281
55°	274	287	316	338	346	244
65°	175	197	237	256	260	172
75°	77	110	135	122	118	83
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°	568.4	568.4	568.4	568.4	568.4
2.5°	570.6	569.0	565.4	568.4	567.0
5°	568.0	566.4	563.8	567.5	566.4
7.5°	565.4	563.2	560.6	564.8	563.8
10°	560.0	558.4	557.0	560.6	560.0
12.5°	553.8	553.2	551.6	555.9	555.4
15°	545.9	545.9	544.9	550.0	550.0
17.5°	537.4	536.9	537.4	543.3	542.7
20°	527.4	527.4	527.9	534.9	534.9
22.5°	515.3	515.8	517.4	525.8	525.3
25°	503.3	504.2	507.4	514.7	515.8
27.5°	488.5	491.2	494.8	503.7	504.8
30°	474.8	476.4	482.1	490.6	492.6
32.5°	458.5	461.6	468.0	477.4	480.1
35°	441.1	445.3	452.7	464.3	466.9
37.5°	423.8	427.5	437.5	449.5	454.3
40°	404.3	410.6	421.1	434.8	440.0
42.5°	385.3	391.7	405.9	420.0	424.8
45°	365.3	372.2	387.4	404.8	410.6
47.5°	343.2	351.2	370.6	389.0	395.3
50°	320.5	330.5	352.1	372.7	380.1
52.5°	296.9	309.5	334.2	355.8	362.7
55°	273.8	287.3	315.9	338.0	346.4
57.5°	250.0	264.8	296.9	322.1	326.9
60°	224.2	242.2	277.4	299.5	305.9
62.5°	199.0	219.5	257.4	278.4	283.7
65°	174.8	196.9	236.9	256.3	260.0
67.5°	148.4	174.8	214.2	232.2	233.1
70°	123.2	153.7	192.1	200.5	193.7
72.5°	98.4	131.1	166.4	159.5	153.7
75°	76.9	110.0	135.3	121.6	118.4
77.5°	56.9	90.1	96.8	89.5	83.7
80°	40.5	71.0	65.3	55.8	53.2
82.5°	27.8	44.8	35.8	27.8	24.2
85°	15.9	20.0	12.7	7.9	6.3
87.5°	6.8	4.8	2.7	2.1	2.1
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)