

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: P732578

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732578
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-CP250-3500K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

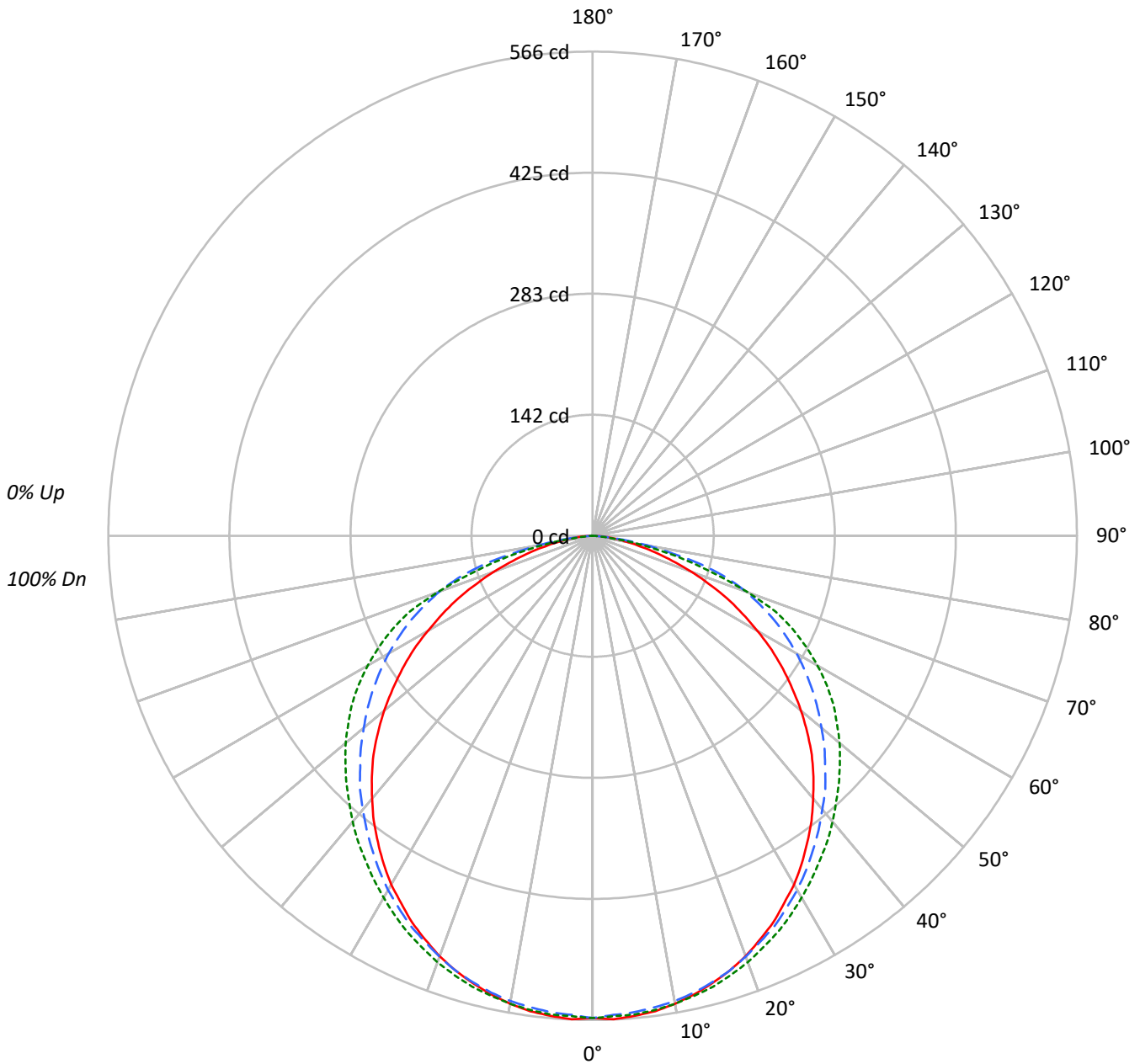
Lumens per Lamp: N/A
Luminaire Lumens: 1660.0 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P732578

CATALOG NUMBER: 14FCZ2-25-HRP-B2750-W2D-CP250-3500K

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°	1591	1591	1591
5°	1596	1584	1592
10°	1592	1583	1592
15°	1582	1579	1594
20°	1571	1573	1593
25°	1554	1567	1593
30°	1535	1558	1592
35°	1507	1547	1595
40°	1477	1539	1608
45°	1446	1534	1625
50°	1396	1533	1655
55°	1336	1541	1690
60°	1255	1552	1712
65°	1157	1569	1723
70°	1009	1572	1585
75°	831	1464	1280
80°	653	1052	857
85°	508	405	201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	3.2
10°-20°	153.1	9.2
20°-30°	232.6	14.0
30°-40°	281.8	17.0
40°-50°	296.9	17.9
50°-60°	277.2	16.7
60°-70°	221.5	13.3
70°-80°	121.9	7.3
80°-90°	21.5	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°	439.1	26.5
0°-40°	720.9	43.4
0°-60°	1295.0	78.0
0°-90°	1660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	563	562	559	563	562	54
15°	541	541	540	545	545	153
25°	499	500	503	510	512	230
35°	437	442	449	460	463	274
45°	362	369	384	402	407	279
55°	272	285	313	335	344	242
65°	173	195	235	254	258	171
75°	76	109	134	121	117	82
85°	16	20	12	8	6	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	563.7	563.7	563.7	563.7	563.7
2.5°	565.8	564.2	560.6	563.7	562.2
5°	563.3	561.7	559.1	562.8	561.7
7.5°	560.6	558.5	555.9	560.1	559.1
10°	555.4	553.8	552.3	555.9	555.4
12.5°	549.1	548.6	547.0	551.3	550.7
15°	541.4	541.4	540.3	545.4	545.4
17.5°	532.9	532.4	532.9	538.7	538.2
20°	523.0	523.0	523.5	530.4	530.4
22.5°	511.0	511.5	513.1	521.4	520.9
25°	499.1	500.0	503.2	510.4	511.5
27.5°	484.4	487.1	490.6	499.5	500.5
30°	470.8	472.4	478.1	486.5	488.5
32.5°	454.7	457.7	464.1	473.5	476.1
35°	437.4	441.6	448.9	460.4	463.0
37.5°	420.2	423.9	433.8	445.7	450.5
40°	400.9	407.1	417.6	431.2	436.3
42.5°	382.0	388.4	402.5	416.5	421.3
45°	362.2	369.1	384.2	401.5	407.1
47.5°	340.3	348.2	367.5	385.7	391.9
50°	317.8	327.7	349.1	369.6	376.9
52.5°	294.5	306.9	331.4	352.8	359.7
55°	271.5	284.9	313.2	335.1	343.5
57.5°	248.0	262.6	294.5	319.4	324.2
60°	222.3	240.2	275.0	297.0	303.3
62.5°	197.4	217.7	255.2	276.1	281.4
65°	173.3	195.2	234.9	254.2	257.9
67.5°	147.2	173.3	212.4	230.3	231.2
70°	122.2	152.4	190.5	198.8	192.1
72.5°	97.6	130.0	165.0	158.1	152.4
75°	76.2	109.1	134.2	120.6	117.4
77.5°	56.4	89.3	96.0	88.8	83.0
80°	40.2	70.4	64.7	55.4	52.7
82.5°	27.6	44.4	35.5	27.6	24.0
85°	15.7	19.8	12.5	7.8	6.2
87.5°	6.7	4.8	2.6	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)