

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: P732579

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732579
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-CP250-4000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

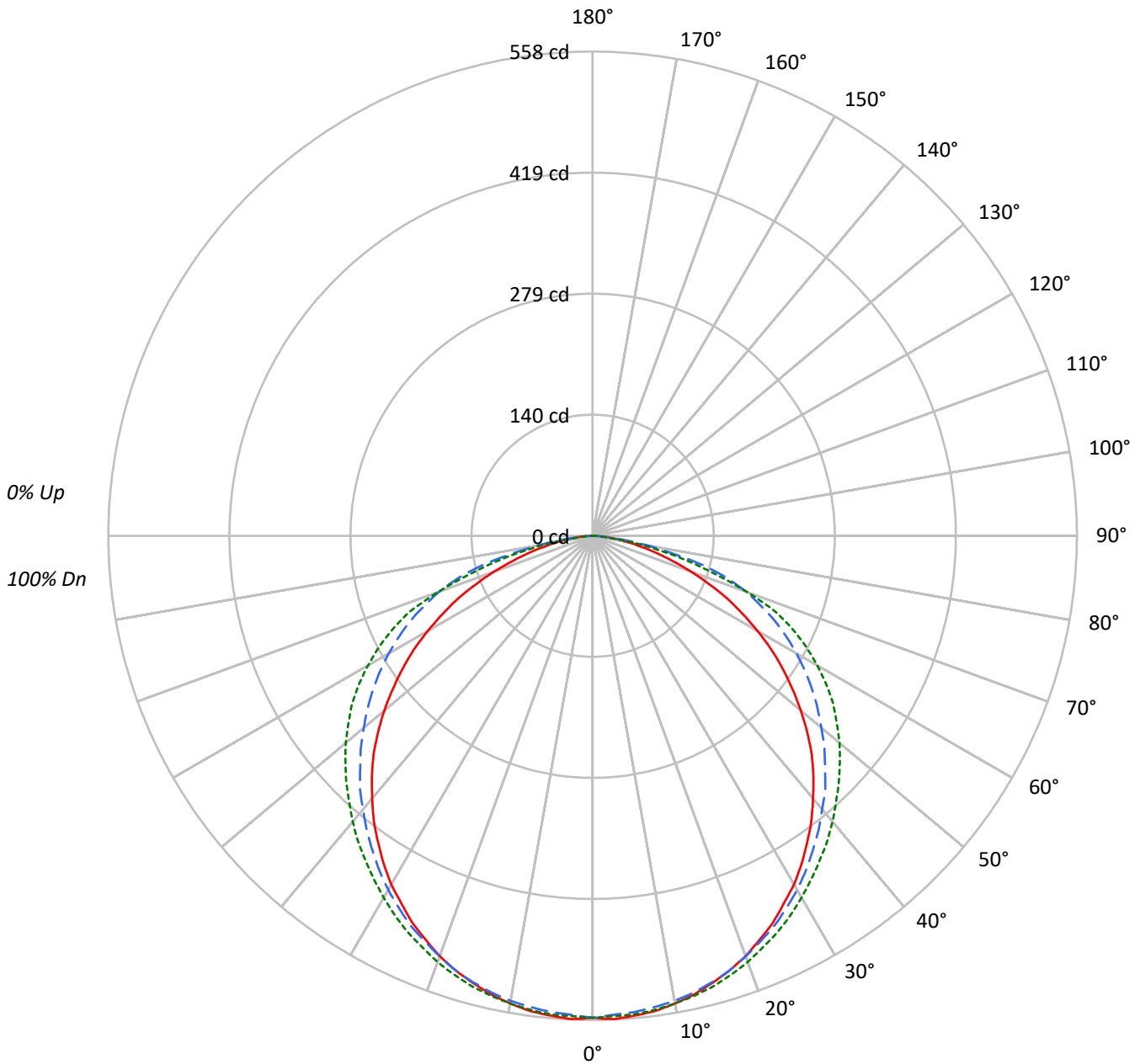
Lumens per Lamp: N/A
Luminaire Lumens: 1636.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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					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	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°	1568	1568	1568
5°	1573	1561	1569
10°	1569	1560	1569
15°	1559	1556	1571
20°	1548	1550	1570
25°	1532	1544	1570
30°	1512	1536	1569
35°	1486	1524	1572
40°	1456	1516	1584
45°	1425	1511	1602
50°	1375	1511	1631
55°	1316	1519	1666
60°	1237	1530	1687
65°	1141	1546	1697
70°	994	1549	1562
75°	819	1443	1262
80°	644	1037	844
85°	502	402	198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	3.2
10°-20°	150.9	9.2
20°-30°	229.2	14.0
30°-40°	277.7	17.0
40°-50°	292.7	17.9
50°-60°	273.2	16.7
60°-70°	218.3	13.3
70°-80°	120.1	7.3
80°-90°	21.2	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°	432.7	26.5
0°-40°	710.4	43.4
0°-60°	1276.3	78.0
0°-90°	1636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	556	556	556	556	556	
5°	555	554	551	555	554	53
15°	534	534	532	538	538	151
25°	492	493	496	503	504	226
35°	431	435	442	454	456	270
45°	357	364	379	396	401	275
55°	268	281	309	330	338	239
65°	171	192	232	250	254	168
75°	75	108	132	119	116	81
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°	555.5	555.5	555.5	555.5	555.5
2.5°	557.6	556.0	552.5	555.5	554.1
5°	555.1	553.6	551.0	554.6	553.6
7.5°	552.5	550.5	547.8	552.0	551.0
10°	547.3	545.8	544.3	547.8	547.3
12.5°	541.2	540.7	539.1	543.3	542.8
15°	533.5	533.5	532.5	537.6	537.6
17.5°	525.2	524.7	525.2	530.9	530.4
20°	515.4	515.4	515.9	522.7	522.7
22.5°	503.6	504.1	505.7	513.9	513.3
25°	491.9	492.8	495.9	503.1	504.1
27.5°	477.4	480.0	483.5	492.3	493.3
30°	464.0	465.6	471.2	479.5	481.4
32.5°	448.1	451.1	457.4	466.6	469.2
35°	431.1	435.2	442.4	453.7	456.3
37.5°	414.1	417.8	427.5	439.3	444.0
40°	395.1	401.3	411.5	424.9	430.0
42.5°	376.5	382.8	396.7	410.5	415.2
45°	357.0	363.8	378.6	395.7	401.3
47.5°	335.4	343.2	362.2	380.2	386.3
50°	313.2	323.0	344.1	364.3	371.4
52.5°	290.2	302.4	326.7	347.7	354.5
55°	267.5	280.8	308.7	330.3	338.5
57.5°	244.4	258.8	290.2	314.8	319.5
60°	219.1	236.7	271.1	292.7	298.9
62.5°	194.5	214.6	251.5	272.1	277.3
65°	170.8	192.4	231.5	250.5	254.1
67.5°	145.0	170.8	209.3	226.9	227.8
70°	120.4	150.2	187.7	195.9	189.3
72.5°	96.2	128.1	162.6	155.8	150.2
75°	75.1	107.5	132.3	118.9	115.7
77.5°	55.6	88.0	94.6	87.5	81.8
80°	39.6	69.4	63.8	54.6	51.9
82.5°	27.2	43.7	35.0	27.2	23.7
85°	15.5	19.5	12.4	7.7	6.1
87.5°	6.6	4.7	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)