

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: P732566

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732566
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-CA125-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

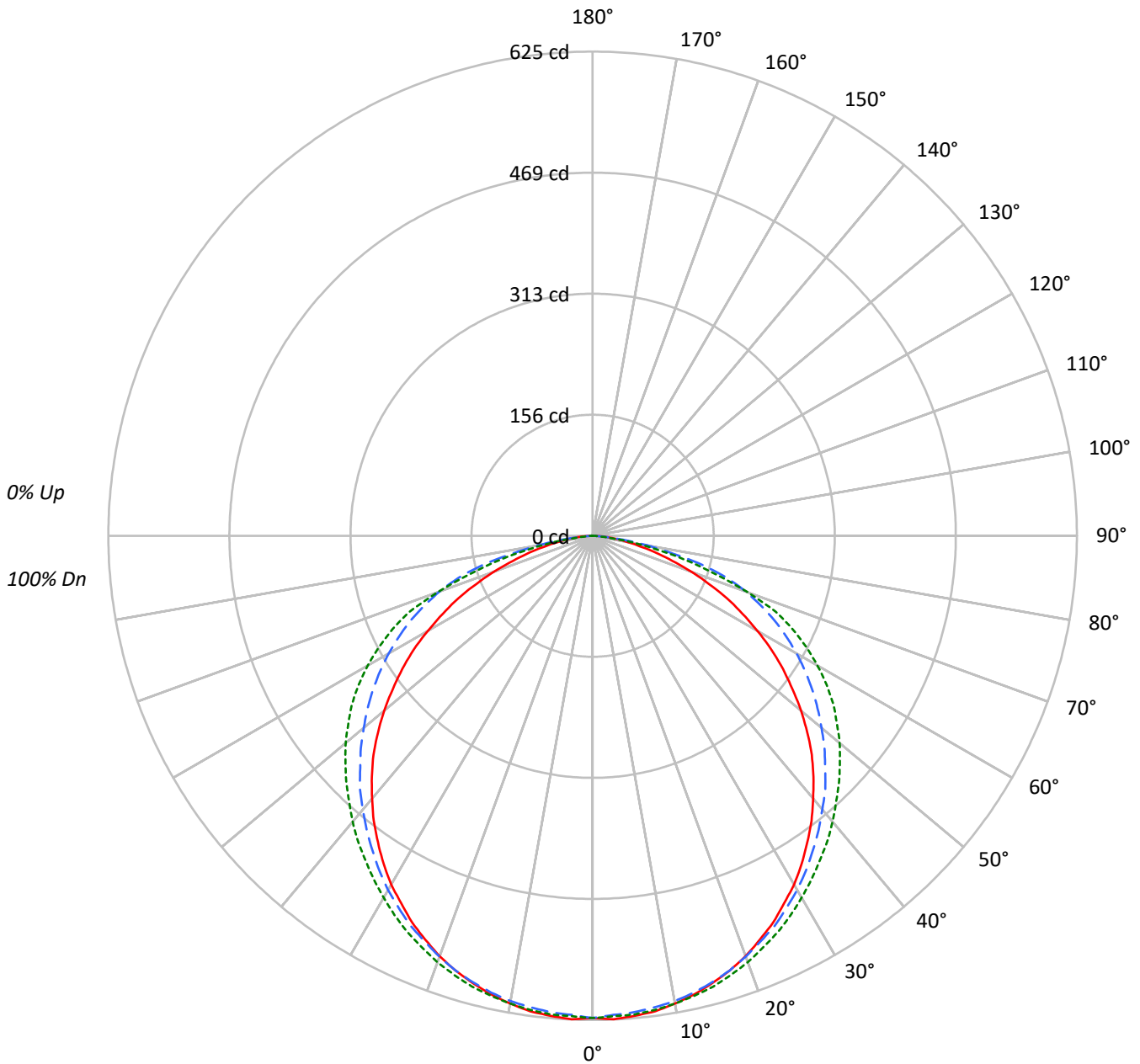
Lumens per Lamp: N/A
Luminaire Lumens: 1833.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1757	1757	1757
5°	1762	1749	1757
10°	1758	1748	1758
15°	1747	1743	1760
20°	1735	1737	1759
25°	1716	1730	1759
30°	1695	1721	1758
35°	1664	1708	1762
40°	1631	1699	1775
45°	1597	1693	1795
50°	1541	1693	1828
55°	1475	1702	1867
60°	1386	1714	1891
65°	1278	1733	1902
70°	1113	1736	1750
75°	918	1616	1415
80°	720	1162	946
85°	564	450	223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	3.2
10°-20°	169.1	9.2
20°-30°	256.8	14.0
30°-40°	311.2	17.0
40°-50°	327.9	17.9
50°-60°	306.1	16.7
60°-70°	244.6	13.3
70°-80°	134.6	7.3
80°-90°	23.8	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°	484.8	26.5
0°-40°	796.0	43.4
0°-60°	1430.0	78.0
0°-90°	1833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	622	622	622	622	622	
5°	622	620	617	621	620	59
15°	598	598	597	602	602	169
25°	551	552	556	564	565	254
35°	483	488	496	508	511	302
45°	400	408	424	443	450	308
55°	300	315	346	370	379	268
65°	191	216	259	281	285	188
75°	84	120	148	133	130	91
85°	17	22	14	9	7	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	622.4	622.4	622.4	622.4	622.4
2.5°	624.8	623.0	619.1	622.4	620.8
5°	622.0	620.2	617.3	621.4	620.2
7.5°	619.1	616.7	613.8	618.5	617.3
10°	613.2	611.5	609.9	613.8	613.2
12.5°	606.4	605.8	604.0	608.7	608.1
15°	597.8	597.8	596.6	602.3	602.3
17.5°	588.4	587.9	588.4	594.9	594.3
20°	577.5	577.5	578.1	585.7	585.7
22.5°	564.2	564.8	566.6	575.7	575.2
25°	551.1	552.1	555.6	563.6	564.8
27.5°	534.9	537.8	541.8	551.5	552.7
30°	519.9	521.6	527.9	537.2	539.4
32.5°	502.1	505.4	512.4	522.8	525.7
35°	483.0	487.6	495.7	508.4	511.3
37.5°	464.0	468.1	479.0	492.2	497.4
40°	442.7	449.6	461.1	476.1	481.8
42.5°	421.9	428.9	444.5	459.9	465.2
45°	400.0	407.6	424.2	443.3	449.6
47.5°	375.8	384.5	405.8	425.9	432.8
50°	351.0	361.9	385.5	408.1	416.2
52.5°	325.1	338.9	366.0	389.6	397.2
55°	299.8	314.6	345.9	370.1	379.3
57.5°	273.8	290.0	325.1	352.7	358.0
60°	245.5	265.2	303.7	327.9	334.9
62.5°	217.9	240.4	281.8	304.9	310.7
65°	191.4	215.6	259.4	280.7	284.7
67.5°	162.5	191.4	234.6	254.2	255.3
70°	134.9	168.3	210.3	219.5	212.1
72.5°	107.8	143.5	182.2	174.6	168.3
75°	84.2	120.5	148.2	133.2	129.7
77.5°	62.3	98.6	106.0	98.0	91.6
80°	44.3	77.7	71.5	61.1	58.2
82.5°	30.5	49.0	39.2	30.5	26.5
85°	17.4	21.9	13.9	8.6	6.9
87.5°	7.4	5.3	2.9	2.3	2.3
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)