

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: P732575

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732575
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-CP187-5000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

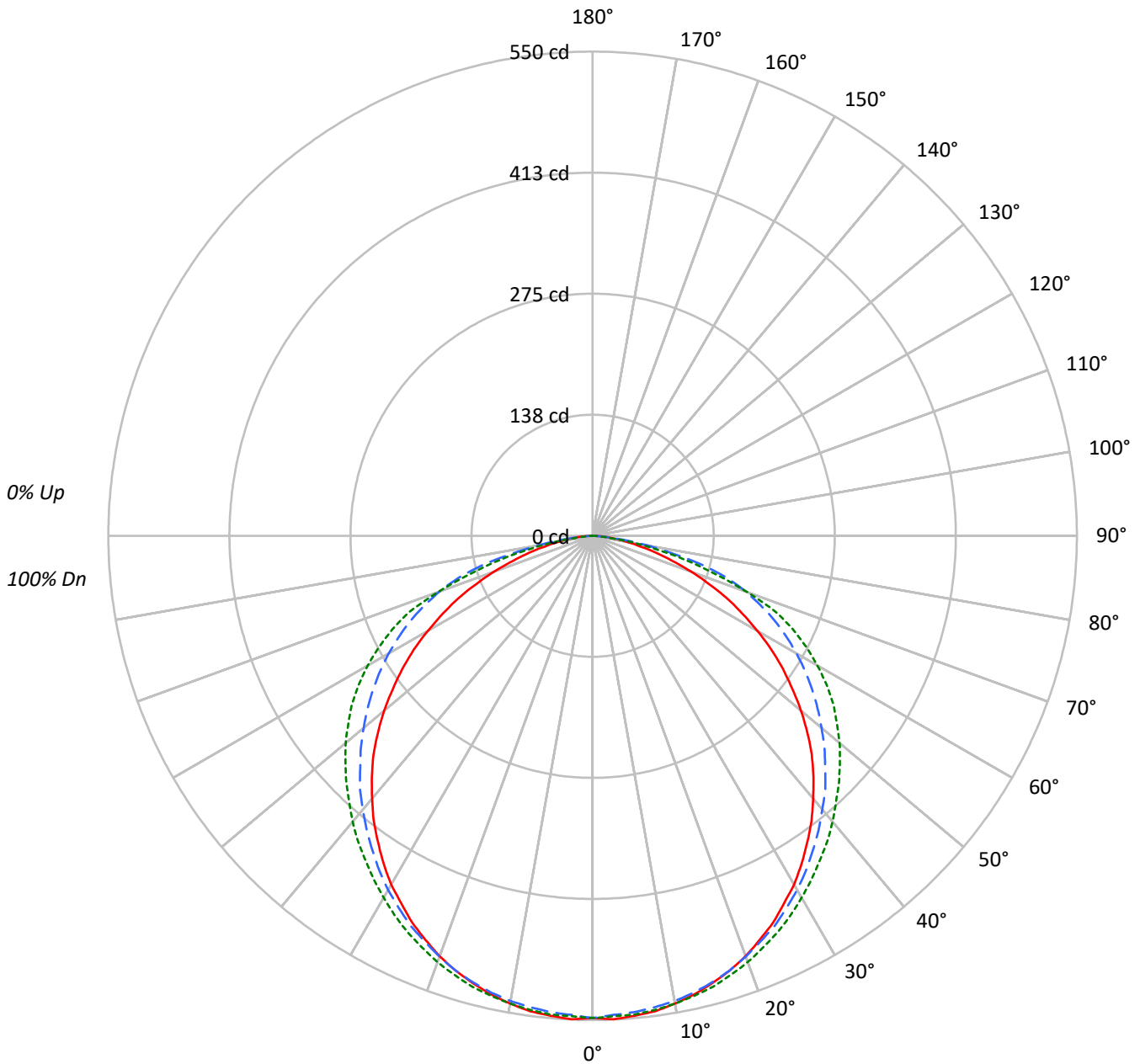
Lumens per Lamp: N/A
Luminaire Lumens: 1613.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1546	1546	1546
5°	1551	1539	1547
10°	1547	1538	1547
15°	1537	1534	1549
20°	1527	1528	1548
25°	1510	1523	1548
30°	1491	1514	1547
35°	1464	1503	1550
40°	1436	1495	1562
45°	1405	1490	1579
50°	1356	1490	1608
55°	1298	1498	1642
60°	1219	1508	1664
65°	1125	1524	1674
70°	980	1528	1540
75°	808	1422	1244
80°	634	1022	832
85°	496	395	194



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	3.2
10°-20°	148.8	9.2
20°-30°	226.0	14.0
30°-40°	273.8	17.0
40°-50°	288.5	17.9
50°-60°	269.4	16.7
60°-70°	215.3	13.3
70°-80°	118.5	7.3
80°-90°	20.9	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°	426.6	26.4
0°-40°	700.4	43.4
0°-60°	1258.4	78.0
0°-90°	1613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	548	548	548	548	548	
5°	547	546	543	547	546	52
15°	526	526	525	530	530	148
25°	485	486	489	496	497	223
35°	425	429	436	447	450	266
45°	352	359	373	390	396	271
55°	264	277	304	326	334	235
65°	168	190	228	247	251	166
75°	74	106	130	117	114	80
85°	15	19	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°	547.7	547.7	547.7	547.7	547.7
2.5°	549.8	548.2	544.8	547.7	546.3
5°	547.3	545.8	543.2	546.8	545.8
7.5°	544.8	542.7	540.1	544.3	543.2
10°	539.6	538.1	536.7	540.1	539.6
12.5°	533.6	533.1	531.5	535.7	535.1
15°	526.0	526.0	525.0	530.0	530.0
17.5°	517.8	517.3	517.8	523.5	522.9
20°	508.2	508.2	508.7	515.4	515.4
22.5°	496.5	497.0	498.6	506.6	506.1
25°	484.9	485.8	488.9	496.0	497.0
27.5°	470.7	473.3	476.7	485.3	486.4
30°	457.5	459.0	464.5	472.8	474.7
32.5°	441.8	444.8	450.9	460.0	462.6
35°	425.0	429.1	436.2	447.3	449.9
37.5°	408.3	411.9	421.5	433.1	437.7
40°	389.6	395.6	405.8	419.0	424.0
42.5°	371.2	377.4	391.1	404.7	409.3
45°	352.0	358.6	373.3	390.1	395.6
47.5°	330.7	338.4	357.1	374.8	380.8
50°	308.8	318.5	339.3	359.2	366.2
52.5°	286.1	298.2	322.1	342.9	349.5
55°	263.8	276.9	304.3	325.7	333.7
57.5°	240.9	255.2	286.1	310.4	315.0
60°	216.0	233.4	267.2	288.6	294.7
62.5°	191.8	211.5	248.0	268.3	273.4
65°	168.4	189.7	228.2	247.0	250.6
67.5°	143.0	168.4	206.4	223.7	224.6
70°	118.7	148.1	185.1	193.2	186.6
72.5°	94.9	126.3	160.3	153.6	148.1
75°	74.1	106.0	130.4	117.2	114.1
77.5°	54.8	86.8	93.3	86.3	80.6
80°	39.0	68.4	62.9	53.8	51.2
82.5°	26.8	43.1	34.5	26.8	23.4
85°	15.3	19.3	12.2	7.6	6.0
87.5°	6.5	4.6	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)