

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: P732565

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732565
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-CA08-5000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

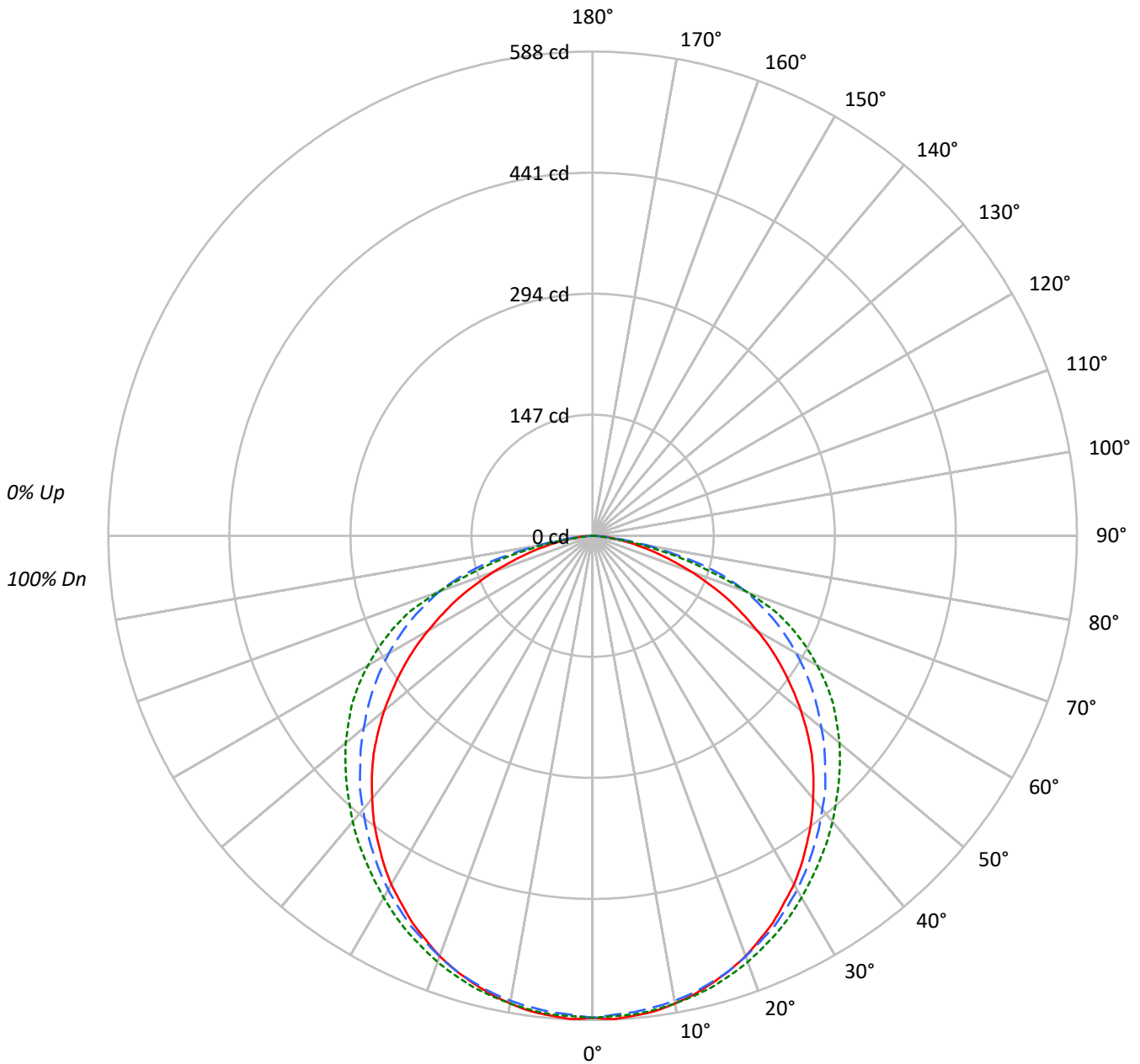
Lumens per Lamp: N/A
Luminaire Lumens: 1724.0 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1652	1652	1652
5°	1658	1645	1653
10°	1653	1644	1653
15°	1643	1640	1655
20°	1632	1633	1655
25°	1614	1628	1654
30°	1594	1618	1653
35°	1565	1606	1657
40°	1534	1598	1670
45°	1502	1593	1688
50°	1450	1592	1719
55°	1387	1601	1755
60°	1304	1612	1778
65°	1202	1629	1789
70°	1047	1632	1646
75°	864	1520	1331
80°	678	1092	889
85°	528	421	207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	3.2
10°-20°	159.0	9.2
20°-30°	241.5	14.0
30°-40°	292.7	17.0
40°-50°	308.4	17.9
50°-60°	287.9	16.7
60°-70°	230.1	13.3
70°-80°	126.6	7.3
80°-90°	22.4	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°	456.0	26.5
0°-40°	748.7	43.4
0°-60°	1344.9	78.0
0°-90°	1724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	585	585	585	585	585	
5°	585	583	581	584	583	56
15°	562	562	561	566	566	159
25°	518	519	523	530	531	239
35°	454	459	466	478	481	284
45°	376	383	399	417	423	289
55°	282	296	325	348	357	252
65°	180	203	244	264	268	177
75°	79	113	139	125	122	85
85°	16	21	13	8	6	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	585.4	585.4	585.4	585.4	585.4
2.5°	587.6	586.0	582.3	585.4	583.9
5°	585.0	583.4	580.6	584.4	583.4
7.5°	582.3	580.1	577.3	581.7	580.6
10°	576.8	575.1	573.6	577.3	576.8
12.5°	570.3	569.8	568.1	572.5	572.0
15°	562.2	562.2	561.1	566.5	566.5
17.5°	553.4	552.9	553.4	559.5	558.9
20°	543.2	543.2	543.7	550.8	550.8
22.5°	530.7	531.2	532.9	541.5	541.0
25°	518.3	519.3	522.6	530.1	531.2
27.5°	503.1	505.8	509.5	518.7	519.8
30°	489.0	490.6	496.5	505.3	507.3
32.5°	472.2	475.4	482.0	491.7	494.4
35°	454.3	458.6	466.2	478.1	480.9
37.5°	436.4	440.3	450.5	462.9	467.8
40°	416.4	422.8	433.7	447.8	453.2
42.5°	396.8	403.4	418.0	432.6	437.5
45°	376.2	383.3	399.0	416.9	422.8
47.5°	353.4	361.6	381.7	400.6	407.1
50°	330.1	340.4	362.6	383.9	391.4
52.5°	305.8	318.7	344.2	366.4	373.6
55°	281.9	295.9	325.3	348.1	356.7
57.5°	257.5	272.7	305.8	331.7	336.7
60°	230.9	249.4	285.6	308.4	315.0
62.5°	205.0	226.1	265.1	286.7	292.2
65°	180.0	202.8	243.9	264.0	267.8
67.5°	152.8	180.0	220.6	239.1	240.1
70°	126.9	158.3	197.8	206.5	199.5
72.5°	101.4	135.0	171.4	164.2	158.3
75°	79.2	113.3	139.4	125.3	122.0
77.5°	58.6	92.7	99.7	92.2	86.2
80°	41.7	73.1	67.2	57.5	54.7
82.5°	28.7	46.1	36.9	28.7	25.0
85°	16.3	20.6	13.0	8.1	6.4
87.5°	7.0	4.9	2.7	2.2	2.2
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)