

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: P732564

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732564
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-CA08-4000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND HRP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

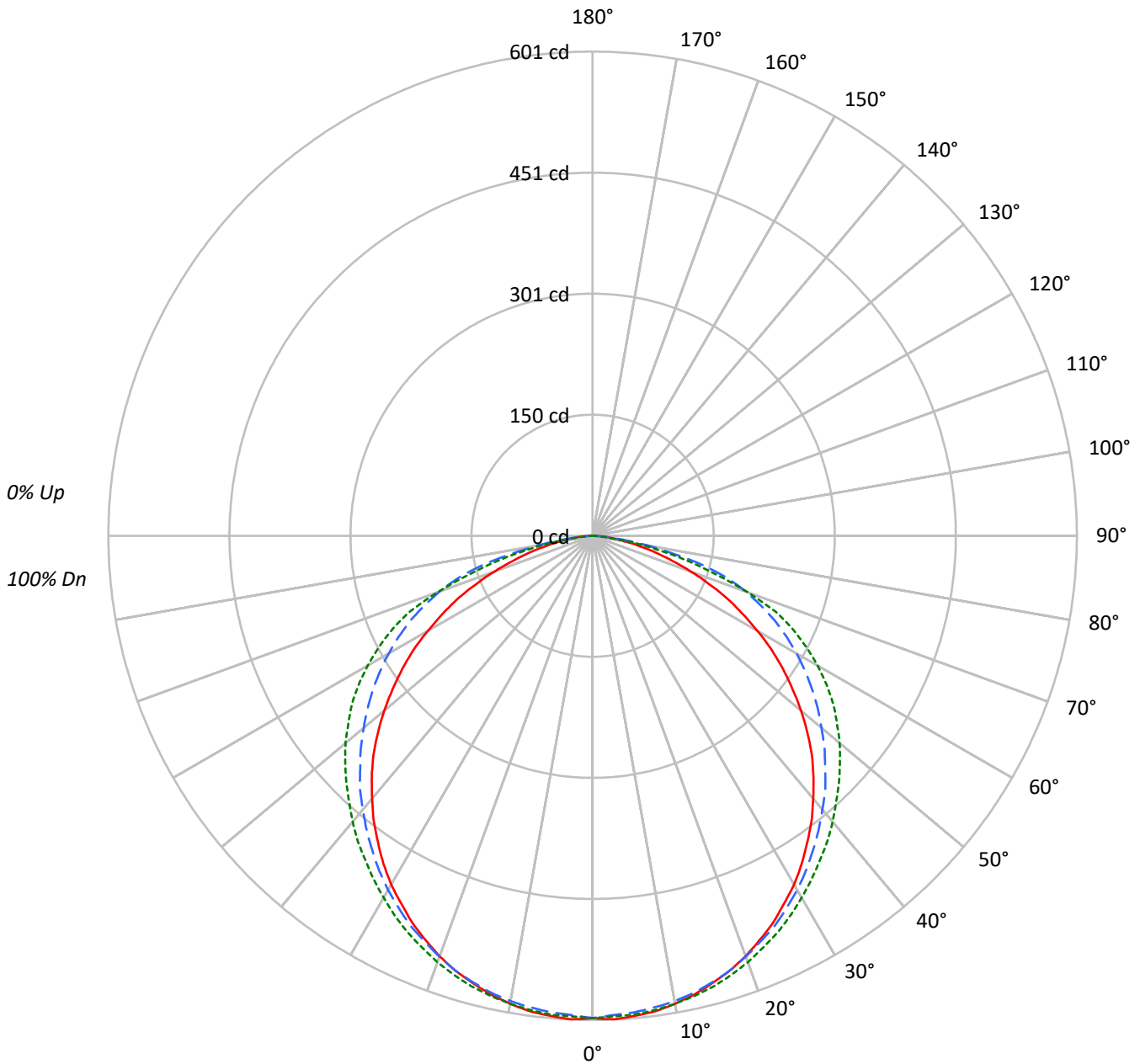
Lumens per Lamp: N/A
Luminaire Lumens: 1763.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1690	1690	1690
5°	1695	1682	1690
10°	1690	1681	1690
15°	1680	1677	1693
20°	1668	1670	1692
25°	1651	1664	1692
30°	1630	1655	1691
35°	1601	1643	1694
40°	1569	1634	1708
45°	1536	1629	1726
50°	1483	1628	1758
55°	1419	1637	1795
60°	1333	1649	1818
65°	1230	1666	1829
70°	1071	1670	1684
75°	883	1554	1360
80°	694	1117	910
85°	541	431	214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	3.2
10°-20°	162.6	9.2
20°-30°	247.0	14.0
30°-40°	299.3	17.0
40°-50°	315.4	17.9
50°-60°	294.4	16.7
60°-70°	235.3	13.3
70°-80°	129.5	7.3
80°-90°	22.9	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°	466.3	26.5
0°-40°	765.6	43.4
0°-60°	1375.4	78.0
0°-90°	1763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1763.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	599	599	599	599	599	
5°	598	596	594	598	596	57
15°	575	575	574	579	579	162
25°	530	531	534	542	543	244
35°	464	469	477	489	492	291
45°	385	392	408	426	432	296
55°	288	303	333	356	365	257
65°	184	207	250	270	274	181
75°	81	116	142	128	125	87
85°	17	21	13	8	7	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	598.7	598.7	598.7	598.7	598.7
2.5°	600.9	599.2	595.4	598.7	597.1
5°	598.2	596.5	593.7	597.7	596.5
7.5°	595.4	593.2	590.4	594.9	593.7
10°	589.8	588.1	586.6	590.4	589.8
12.5°	583.2	582.7	581.0	585.5	584.9
15°	574.9	574.9	573.8	579.3	579.3
17.5°	566.0	565.4	566.0	572.1	571.6
20°	555.4	555.4	556.0	563.3	563.3
22.5°	542.7	543.2	544.9	553.8	553.2
25°	530.0	531.0	534.4	542.1	543.2
27.5°	514.5	517.3	521.1	530.5	531.6
30°	500.0	501.7	507.7	516.7	518.8
32.5°	482.9	486.1	492.9	502.8	505.6
35°	464.5	469.0	476.7	488.9	491.7
37.5°	446.3	450.2	460.7	473.4	478.4
40°	425.8	432.4	443.5	457.9	463.4
42.5°	405.7	412.5	427.5	442.4	447.4
45°	384.7	392.0	408.0	426.4	432.4
47.5°	361.4	369.8	390.3	409.7	416.3
50°	337.6	348.1	370.8	392.6	400.3
52.5°	312.7	325.9	352.0	374.7	382.0
55°	288.3	302.6	332.6	355.9	364.8
57.5°	263.3	278.9	312.7	339.2	344.3
60°	236.1	255.1	292.1	315.4	322.1
62.5°	209.6	231.2	271.1	293.2	298.8
65°	184.1	207.4	249.5	269.9	273.9
67.5°	156.3	184.1	225.6	244.5	245.5
70°	129.8	161.9	202.3	211.1	204.0
72.5°	103.7	138.1	175.2	167.9	161.9
75°	81.0	115.9	142.5	128.1	124.7
77.5°	59.9	94.8	102.0	94.3	88.1
80°	42.7	74.8	68.7	58.8	56.0
82.5°	29.3	47.1	37.7	29.3	25.5
85°	16.7	21.0	13.3	8.3	6.6
87.5°	7.2	5.1	2.8	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)