

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: P732437

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732437  
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: 14FCZ2-20-HRP-B2750-W2D-CA08-3000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND HRP LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

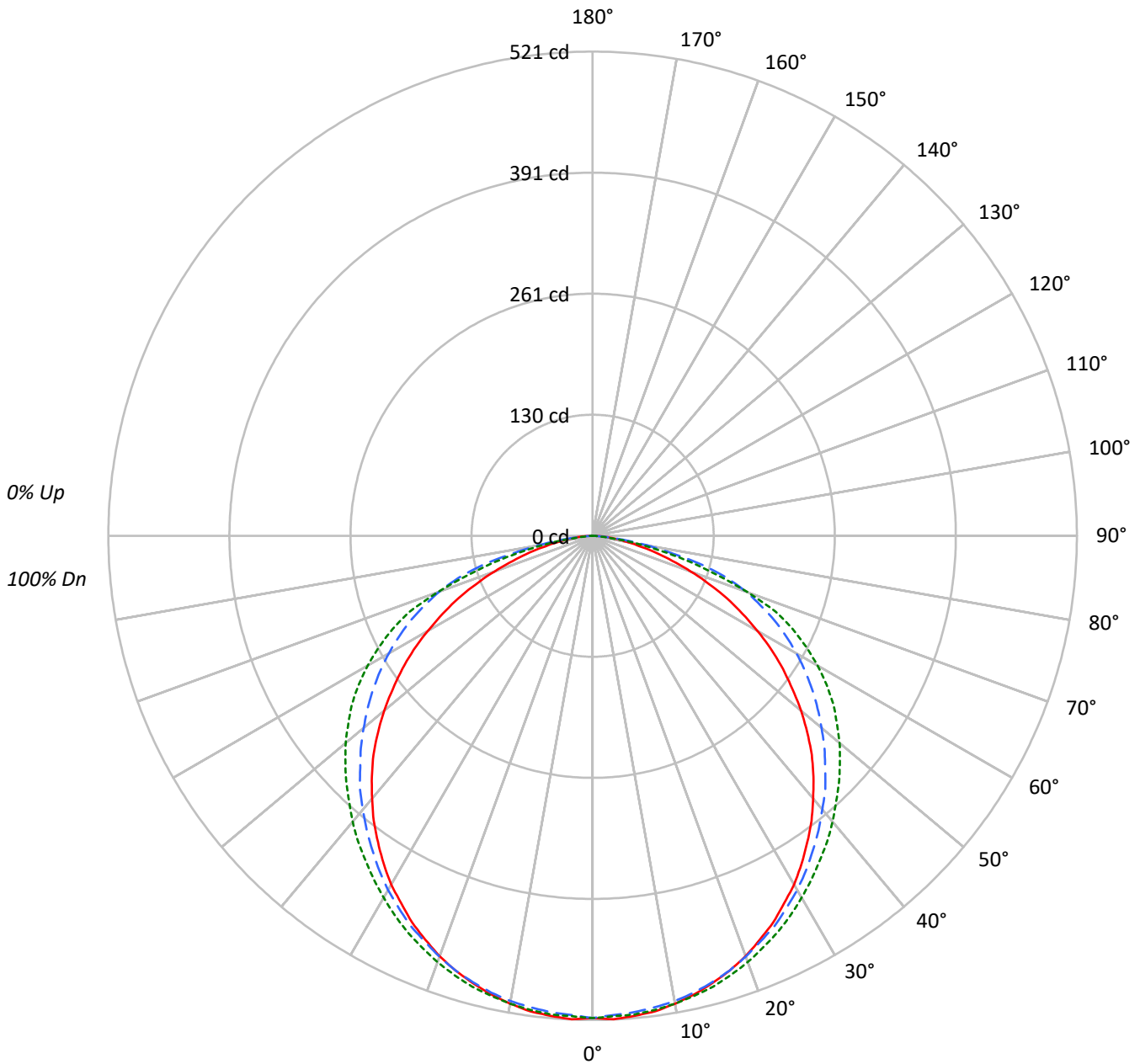
Lumens per Lamp: N/A  
Luminaire Lumens: 1528.0 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	1465	1465	1465
5°	1469	1458	1465
10°	1465	1457	1465
15°	1456	1453	1467
20°	1446	1448	1466
25°	1431	1443	1466
30°	1413	1434	1466
35°	1387	1424	1469
40°	1360	1416	1480
45°	1331	1412	1496
50°	1285	1411	1523
55°	1230	1419	1556
60°	1155	1429	1576
65°	1065	1444	1586
70°	928	1447	1459
75°	766	1347	1179
80°	601	969	788
85°	470	376	185



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.1	3.2
10°-20°	141.0	9.2
20°-30°	214.1	14.0
30°-40°	259.4	17.0
40°-50°	273.3	17.9
50°-60°	255.2	16.7
60°-70°	203.9	13.3
70°-80°	112.2	7.3
80°-90°	19.8	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°	404.2	26.5
0°-40°	663.5	43.4
0°-60°	1192.0	78.0
0°-90°	1528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1528.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	519	519	519	519	519	
5°	518	517	515	518	517	49
15°	498	498	497	502	502	141
25°	459	460	463	470	471	211
35°	403	406	413	424	426	252
45°	333	340	354	370	375	257
55°	250	262	288	308	316	223
65°	160	180	216	234	237	157
75°	70	100	124	111	108	76
85°	14	18	12	7	6	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	518.9	518.9	518.9	518.9	518.9
2.5°	520.8	519.3	516.1	518.9	517.5
5°	518.5	517.0	514.6	518.0	517.0
7.5°	516.1	514.1	511.7	515.6	514.6
10°	511.2	509.7	508.4	511.7	511.2
12.5°	505.5	505.0	503.5	507.4	506.9
15°	498.3	498.3	497.3	502.1	502.1
17.5°	490.5	490.0	490.5	495.9	495.4
20°	481.4	481.4	481.9	488.2	488.2
22.5°	470.3	470.8	472.3	479.9	479.5
25°	459.4	460.2	463.2	469.9	470.8
27.5°	445.9	448.3	451.6	459.8	460.7
30°	433.4	434.8	440.1	447.8	449.7
32.5°	418.5	421.3	427.2	435.8	438.2
35°	402.6	406.5	413.2	423.8	426.2
37.5°	386.8	390.2	399.3	410.3	414.6
40°	369.0	374.8	384.4	396.9	401.6
42.5°	351.7	357.5	370.5	383.4	387.8
45°	333.4	339.7	353.6	369.5	374.8
47.5°	313.2	320.5	338.3	355.1	360.8
50°	292.6	301.7	321.4	340.2	346.9
52.5°	271.0	282.5	305.1	324.8	331.1
55°	249.9	262.3	288.3	308.5	316.2
57.5°	228.2	241.7	271.0	294.0	298.4
60°	204.6	221.1	253.2	273.4	279.2
62.5°	181.7	200.4	234.9	254.1	259.0
65°	159.5	179.7	216.2	234.0	237.4
67.5°	135.5	159.5	195.5	211.9	212.8
70°	112.5	140.3	175.3	183.0	176.8
72.5°	89.9	119.7	151.9	145.6	140.3
75°	70.2	100.4	123.5	111.0	108.1
77.5°	51.9	82.2	88.4	81.7	76.4
80°	37.0	64.8	59.6	50.9	48.5
82.5°	25.4	40.9	32.7	25.4	22.1
85°	14.5	18.2	11.6	7.2	5.7
87.5°	6.2	4.4	2.4	1.9	1.9
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)