

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: P732588

Luminaire Tested: **14FCZ2-25-RDP-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-25-RDP-B2750-W2D-CA08-3500K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RDP LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

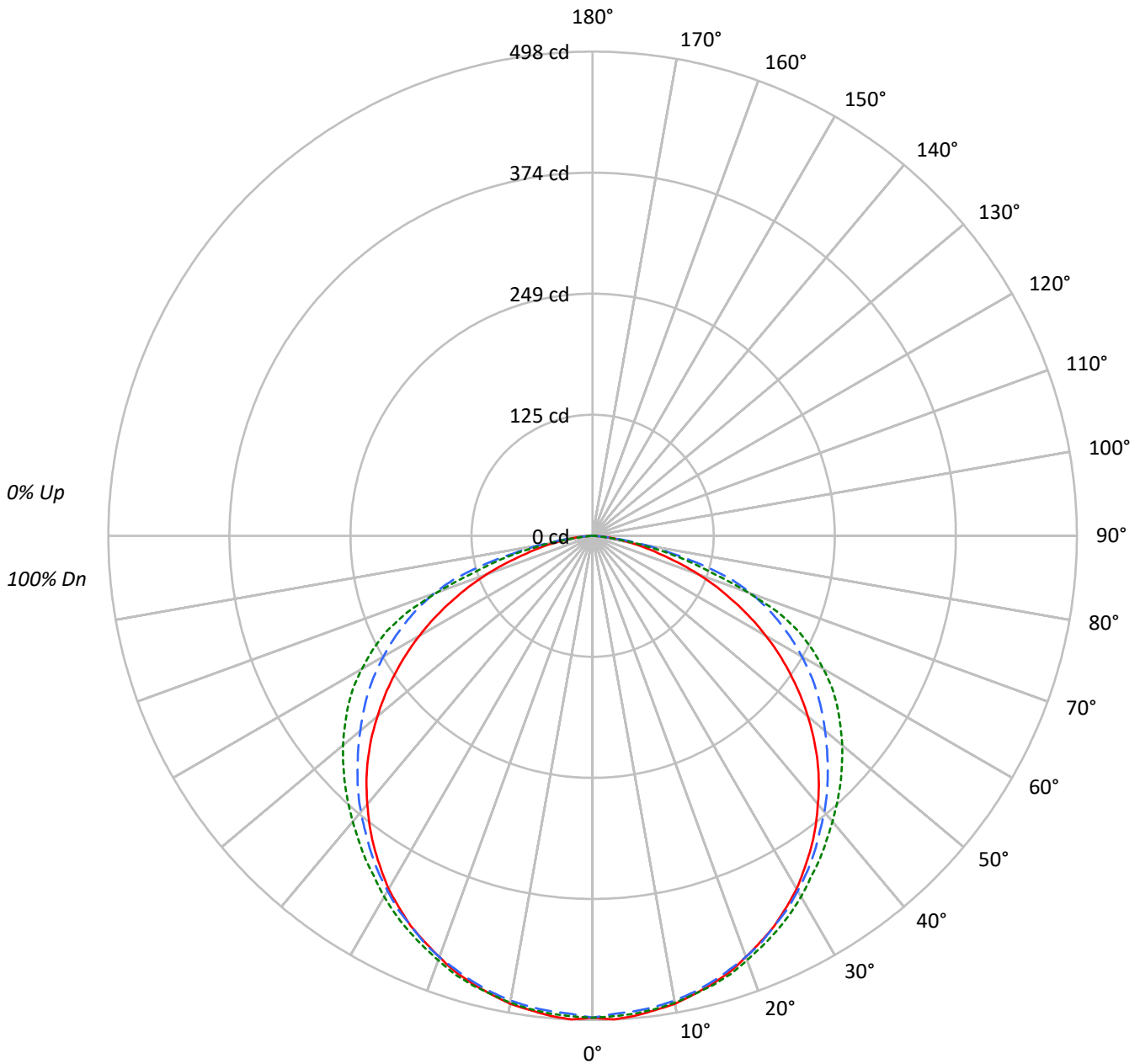
Lumens per Lamp: N/A  
Luminaire Lumens: 1480.0 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (A<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									
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	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1399	1399	1399
5°	1405	1391	1398
10°	1401	1391	1398
15°	1394	1388	1398
20°	1385	1385	1395
25°	1378	1378	1396
30°	1367	1375	1397
35°	1350	1370	1402
40°	1328	1367	1414
45°	1305	1365	1439
50°	1269	1370	1472
55°	1222	1388	1512
60°	1161	1402	1546
65°	1073	1420	1566
70°	954	1431	1401
75°	769	1285	1121
80°	601	902	731
85°	411	262	188



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.9	3.2
10°-20°	134.6	9.1
20°-30°	205.0	13.8
30°-40°	249.7	16.9
40°-50°	264.9	17.9
50°-60°	250.0	16.9
60°-70°	201.8	13.6
70°-80°	109.5	7.4
80°-90°	17.7	1.2
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°	386.5	26.1
0°-40°	636.2	43.0
0°-60°	1151.0	77.8
0°-90°	1480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1480.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	496	496	496	496	496	
5°	496	495	491	495	493	47
15°	477	476	475	478	478	135
25°	443	442	443	447	448	204
35°	392	394	398	406	407	245
45°	327	332	342	355	360	252
55°	248	259	282	300	307	222
65°	161	180	213	230	234	159
75°	70	103	118	106	103	77
85°	13	14	8	7	6	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	495.7	495.7	495.7	495.7	495.7
2.5°	498.0	495.7	492.2	495.7	494.6
5°	495.7	494.6	491.0	494.6	493.4
7.5°	492.2	492.2	488.8	491.0	491.0
10°	488.8	487.6	485.4	488.8	487.6
12.5°	482.9	481.8	480.7	484.1	482.9
15°	477.1	476.0	474.9	478.4	478.4
17.5°	470.2	469.1	467.9	472.6	472.6
20°	461.0	461.0	461.0	465.7	464.5
22.5°	451.8	451.8	452.9	457.6	456.5
25°	442.6	441.5	442.6	447.1	448.2
27.5°	431.0	432.1	433.2	437.9	439.0
30°	419.5	420.6	421.8	427.6	428.7
32.5°	405.6	407.9	410.2	417.1	417.1
35°	391.7	394.0	397.5	405.6	406.8
37.5°	376.7	379.0	383.7	392.9	395.1
40°	360.4	364.0	370.9	380.1	383.7
42.5°	344.3	349.0	357.0	367.4	372.1
45°	327.0	331.5	342.0	354.8	360.4
47.5°	308.5	314.3	327.0	343.2	347.8
50°	288.9	297.0	312.0	329.3	335.1
52.5°	269.2	278.4	297.0	315.4	321.2
55°	248.4	258.8	282.0	300.4	307.3
57.5°	227.6	239.2	265.7	285.4	292.3
60°	205.6	219.5	248.4	268.1	273.9
62.5°	183.7	199.8	231.1	250.7	255.4
65°	160.6	180.3	212.6	230.0	234.5
67.5°	138.7	161.7	194.2	206.8	206.8
70°	115.6	140.9	173.4	176.8	169.8
72.5°	92.5	121.4	150.3	137.5	131.7
75°	70.5	102.8	117.8	106.4	102.8
77.5°	53.1	83.1	83.1	76.2	73.9
80°	37.0	63.6	55.5	48.6	45.0
82.5°	24.2	35.8	28.9	23.1	19.7
85°	12.7	13.9	8.1	6.9	5.8
87.5°	4.7	2.3	1.1	2.3	1.1
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)