

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: P732605

Luminaire Tested: **14FCZ2-25-RDP-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732605  
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-CP250-5000K  
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND RDP LENS, WITH, CP250 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

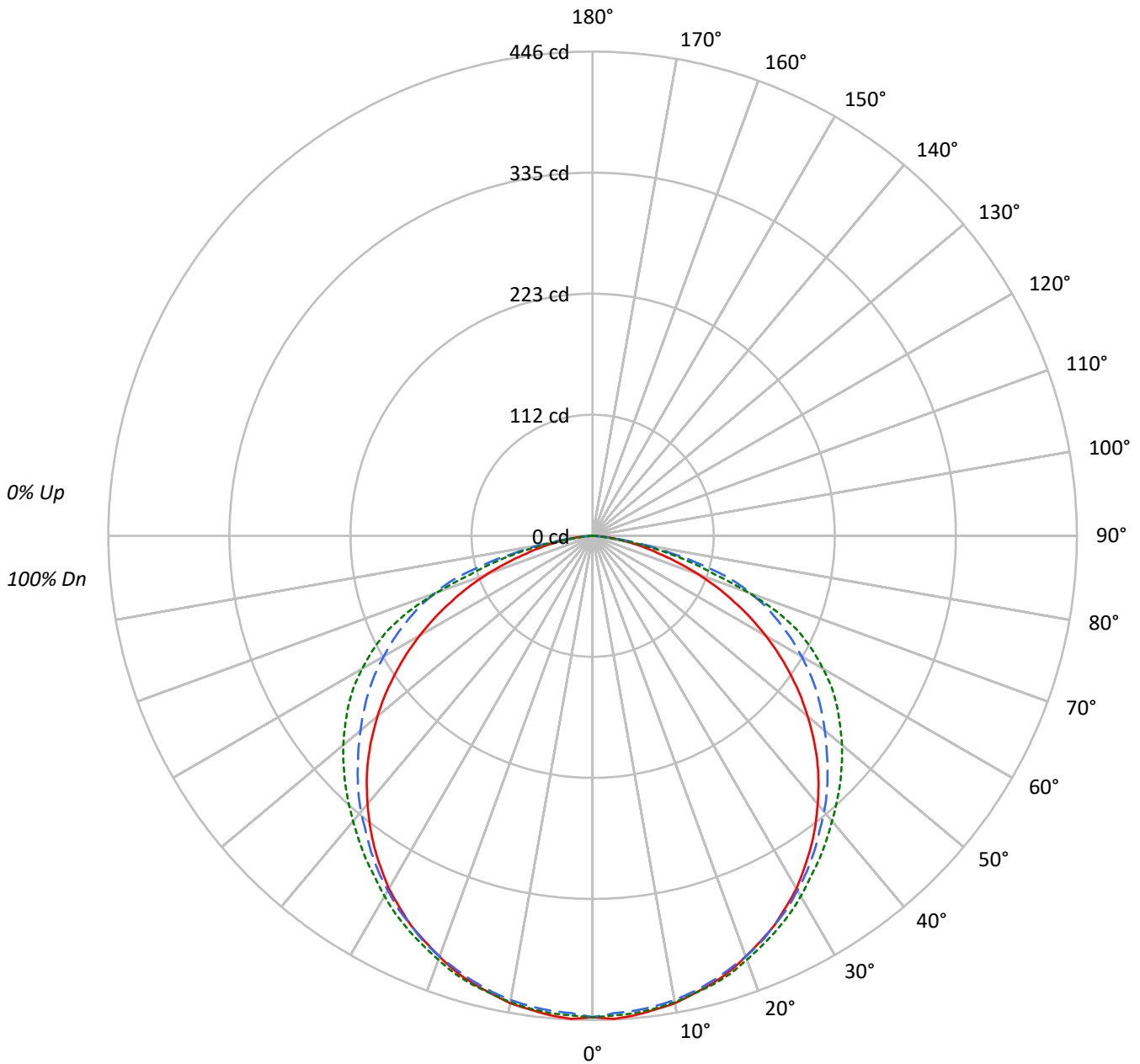
Lumens per Lamp: N/A  
Luminaire Lumens: 1324.0 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1252	1252	1252
5°	1256	1245	1251
10°	1253	1245	1250
15°	1247	1241	1251
20°	1239	1239	1248
25°	1233	1233	1249
30°	1223	1230	1250
35°	1207	1225	1254
40°	1188	1223	1265
45°	1168	1222	1287
50°	1135	1226	1317
55°	1093	1242	1353
60°	1039	1254	1383
65°	960	1270	1401
70°	853	1280	1254
75°	688	1149	1003
80°	538	808	655
85°	369	233	168



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.0	3.2
10°-20°	120.4	9.1
20°-30°	183.4	13.8
30°-40°	223.3	16.9
40°-50°	236.9	17.9
50°-60°	223.6	16.9
60°-70°	180.6	13.6
70°-80°	98.0	7.4
80°-90°	15.8	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°	345.8	26.1
0°-40°	569.1	43.0
0°-60°	1029.7	77.8
0°-90°	1324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1324.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	443	443	443	443	443	
5°	443	442	439	442	441	42
15°	427	426	425	428	428	120
25°	396	395	396	400	401	182
35°	350	352	356	363	364	219
45°	292	297	306	317	322	225
55°	222	232	252	269	275	199
65°	144	161	190	206	210	142
75°	63	92	105	95	92	69
85°	11	12	7	6	5	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	443.4	443.4	443.4	443.4	443.4
2.5°	445.5	443.4	440.3	443.4	442.4
5°	443.4	442.4	439.3	442.4	441.4
7.5°	440.3	440.3	437.2	439.3	439.3
10°	437.2	436.2	434.2	437.2	436.2
12.5°	432.0	431.0	430.0	433.1	432.0
15°	426.8	425.8	424.8	428.0	428.0
17.5°	420.6	419.6	418.6	422.8	422.8
20°	412.4	412.4	412.4	416.6	415.6
22.5°	404.2	404.2	405.2	409.4	408.3
25°	395.9	394.9	395.9	400.0	401.0
27.5°	385.5	386.6	387.6	391.8	392.8
30°	375.3	376.3	377.3	382.5	383.5
32.5°	362.9	364.9	366.9	373.1	373.1
35°	350.4	352.5	355.6	362.9	363.9
37.5°	337.0	339.0	343.2	351.5	353.5
40°	322.4	325.6	331.8	340.1	343.2
42.5°	308.0	312.2	319.4	328.7	332.8
45°	292.5	296.6	306.0	317.4	322.4
47.5°	275.9	281.1	292.5	307.0	311.2
50°	258.5	265.7	279.1	294.6	299.8
52.5°	240.9	249.1	265.7	282.2	287.4
55°	222.2	231.5	252.3	268.7	274.9
57.5°	203.6	214.0	237.7	255.3	261.5
60°	184.0	196.4	222.2	239.8	245.0
62.5°	164.3	178.8	206.8	224.3	228.4
65°	143.7	161.3	190.2	205.8	209.8
67.5°	124.0	144.7	173.7	185.0	185.0
70°	103.4	126.1	155.1	158.1	151.9
72.5°	82.7	108.6	134.4	123.0	117.8
75°	63.1	92.0	105.4	95.2	92.0
77.5°	47.5	74.4	74.4	68.2	66.1
80°	33.1	56.9	49.7	43.5	40.3
82.5°	21.7	32.1	25.8	20.7	17.6
85°	11.4	12.4	7.2	6.2	5.2
87.5°	4.2	2.0	1.0	2.0	1.0
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)