

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: P733979

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30-RDP-B2750-W2D-CP250-4000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND RDP LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

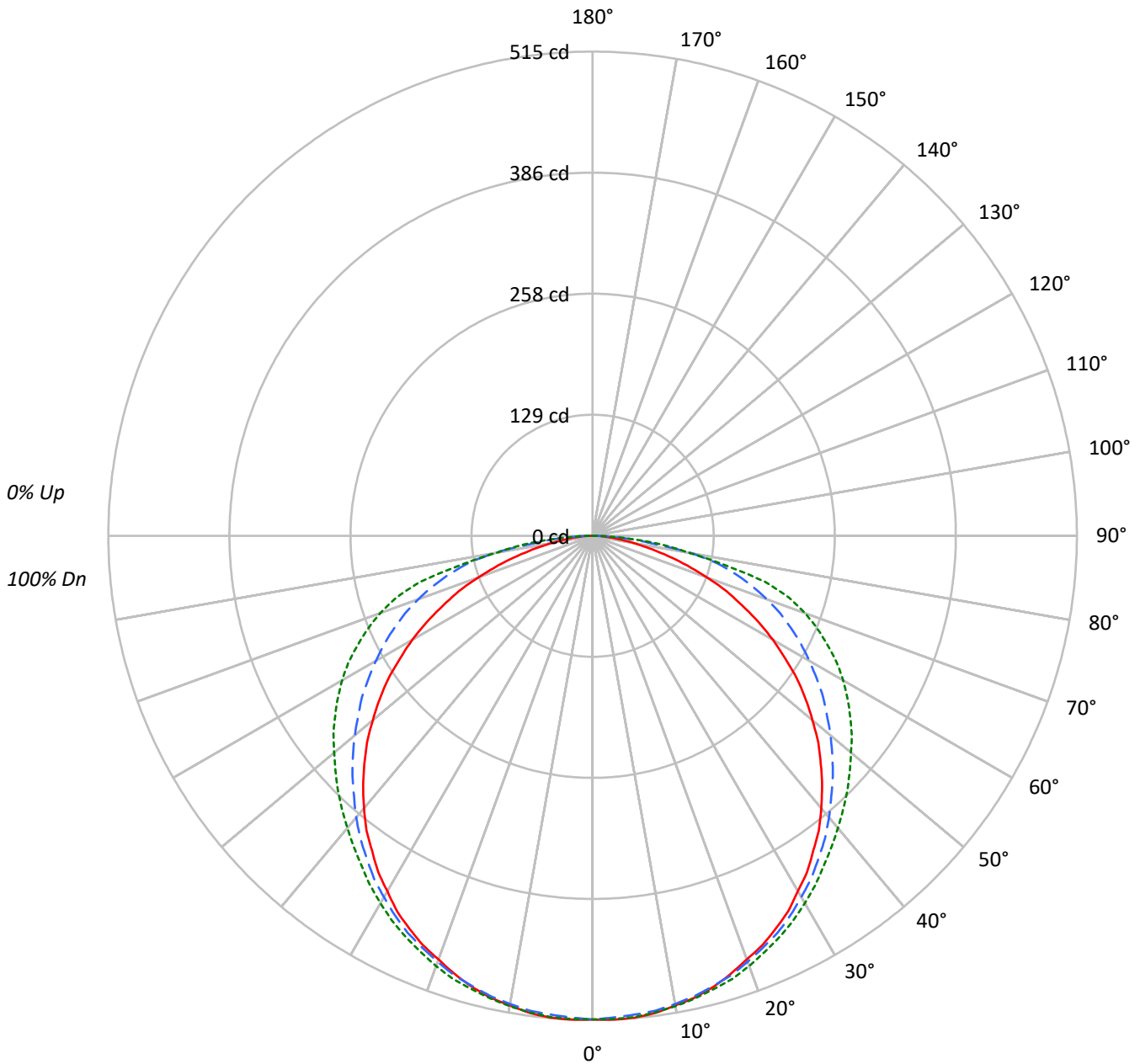
Lumens per Lamp: N/A  
Luminaire Lumens: 1636.0 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67			
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22			

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

	0°	45°	90°
0°	726	726	726
5°	729	724	728
10°	727	725	728
15°	726	724	729
20°	720	724	731
25°	718	725	733
30°	712	723	735
35°	705	721	738
40°	697	721	748
45°	685	721	764
50°	670	725	788
55°	653	737	823
60°	625	751	868
65°	585	778	921
70°	533	814	991
75°	452	858	1036
80°	356	864	837
85°	262	657	735



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.8	3.0
10°-20°	140.5	8.6
20°-30°	214.8	13.1
30°-40°	262.6	16.0
40°-50°	279.8	17.1
50°-60°	267.6	16.4
60°-70°	226.7	13.9
70°-80°	152.3	9.3
80°-90°	43.0	2.6
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°	404.0	24.7
0°-40°	666.6	40.7
0°-60°	1214.0	74.2
0°-90°	1636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1636.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	514	514	514	514	514	
5°	514	514	511	514	514	49
15°	497	497	496	500	499	140
25°	461	462	466	470	471	212
35°	409	412	419	427	428	256
45°	343	349	361	376	383	265
55°	265	275	299	323	334	236
65°	175	193	233	264	276	174
75°	83	113	157	184	190	89
85°	16	33	41	44	45	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	514.5	514.5	514.5	514.5	514.5
2.5°	515.3	515.3	512.8	514.5	514.5
5°	514.5	513.7	511.3	513.7	513.7
7.5°	512.0	511.3	509.6	512.0	511.3
10°	507.1	507.1	505.6	508.0	508.0
12.5°	503.1	502.3	501.5	504.7	503.9
15°	496.7	496.7	495.8	499.9	499.0
17.5°	488.6	489.3	490.1	493.3	494.2
20°	479.5	481.2	482.0	486.9	486.9
22.5°	471.4	472.3	473.9	478.8	478.8
25°	461.0	462.5	465.8	469.9	470.6
27.5°	450.4	451.2	455.3	461.0	461.7
30°	436.6	439.0	443.8	450.4	451.2
32.5°	424.4	426.8	432.5	439.0	440.6
35°	409.0	412.2	418.7	426.8	428.5
37.5°	395.2	397.7	405.8	414.7	417.1
40°	378.2	383.0	391.1	401.7	405.8
42.5°	361.2	365.9	375.7	389.5	394.4
45°	343.2	348.9	361.2	376.5	383.0
47.5°	325.4	331.9	345.7	363.5	370.8
50°	305.1	313.2	330.2	350.6	358.7
52.5°	285.6	295.4	314.1	336.8	347.4
55°	265.4	275.0	299.4	323.0	334.3
57.5°	242.7	255.6	282.4	309.2	321.3
60°	221.5	233.7	266.1	295.4	307.5
62.5°	198.8	215.1	249.9	280.7	293.0
65°	175.2	193.2	232.9	263.7	275.9
67.5°	154.2	173.7	215.9	246.7	258.9
70°	129.1	153.3	197.2	228.0	240.2
72.5°	105.5	132.3	177.7	207.7	219.1
75°	82.8	112.8	157.4	184.2	189.9
77.5°	61.6	93.3	136.3	147.7	143.6
80°	43.8	74.7	106.3	100.6	103.0
82.5°	28.4	56.8	65.8	74.7	77.1
85°	16.2	33.3	40.6	43.8	45.4
87.5°	7.3	12.1	16.2	16.2	15.5
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)