

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: P734104

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734104  
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: 24FCZ2-30HE-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**

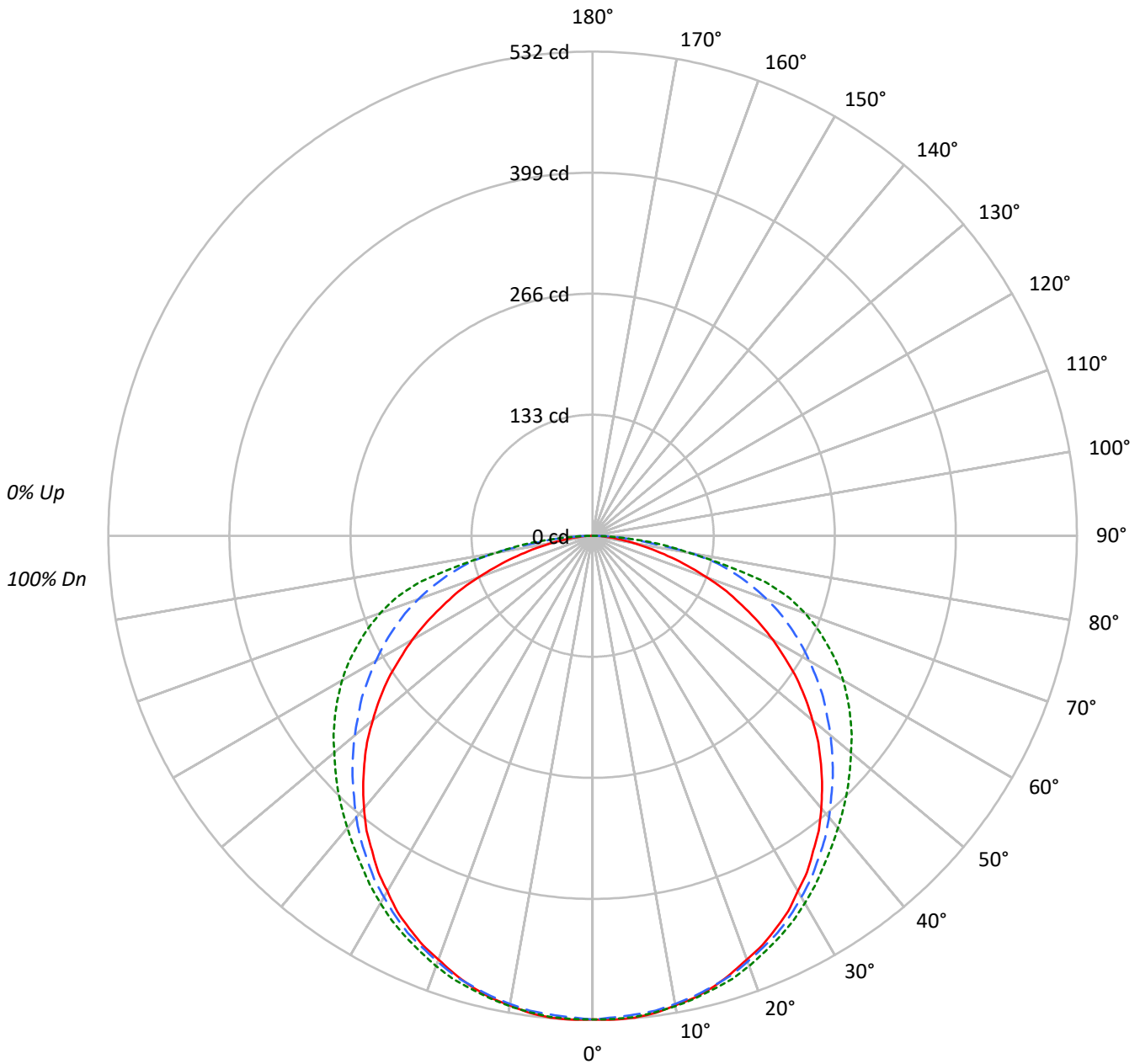
Lumens per Lamp: N/A  
Luminaire Lumens: 1690.0 lumens  
Efficiency: N/A  
Efficacy: 76.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 22  
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	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°	750	750	750
5°	753	748	752
10°	751	749	752
15°	750	748	753
20°	744	748	755
25°	742	749	757
30°	735	747	760
35°	728	745	763
40°	720	744	772
45°	708	745	790
50°	692	749	813
55°	674	761	850
60°	646	776	897
65°	604	803	952
70°	550	841	1024
75°	466	887	1070
80°	368	892	865
85°	272	678	759



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.4	3.0
10°-20°	145.1	8.6
20°-30°	221.9	13.1
30°-40°	271.2	16.0
40°-50°	289.1	17.1
50°-60°	276.4	16.4
60°-70°	234.1	13.9
70°-80°	157.4	9.3
80°-90°	44.4	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°	417.4	24.7
0°-40°	688.6	40.7
0°-60°	1254.1	74.2
0°-90°	1690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1690.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	532	532	532	532	532	
5°	532	531	528	531	531	50
15°	513	513	512	516	516	145
25°	476	478	481	485	486	219
35°	422	426	432	441	443	265
45°	355	360	373	389	396	274
55°	274	284	309	334	345	244
65°	181	200	241	272	285	180
75°	86	116	163	190	196	92
85°	17	34	42	45	47	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	531.5	531.5	531.5	531.5	531.5
2.5°	532.3	532.3	529.7	531.5	531.5
5°	531.5	530.7	528.1	530.7	530.7
7.5°	528.9	528.1	526.4	528.9	528.1
10°	523.9	523.9	522.3	524.8	524.8
12.5°	519.7	518.9	518.0	521.4	520.5
15°	513.1	513.1	512.2	516.4	515.5
17.5°	504.7	505.5	506.3	509.6	510.5
20°	495.4	497.1	497.9	503.0	503.0
22.5°	487.0	487.9	489.5	494.6	494.6
25°	476.2	477.8	481.1	485.4	486.2
27.5°	465.3	466.1	470.3	476.2	477.0
30°	451.0	453.5	458.5	465.3	466.1
32.5°	438.4	440.9	446.8	453.5	455.1
35°	422.5	425.8	432.5	440.9	442.6
37.5°	408.2	410.8	419.2	428.4	430.9
40°	390.7	395.6	404.0	414.9	419.2
42.5°	373.1	378.0	388.1	402.4	407.4
45°	354.6	360.4	373.1	388.9	395.6
47.5°	336.2	342.9	357.1	375.5	383.1
50°	315.2	323.5	341.1	362.2	370.5
52.5°	295.0	305.2	324.5	347.9	358.8
55°	274.1	284.1	309.3	333.7	345.4
57.5°	250.7	264.0	291.7	319.4	331.9
60°	228.8	241.4	274.9	305.2	317.7
62.5°	205.4	222.2	258.2	290.0	302.6
65°	181.0	199.5	240.6	272.4	285.0
67.5°	159.3	179.4	223.0	254.8	267.4
70°	133.3	158.4	203.7	235.5	248.1
72.5°	109.0	136.7	183.6	214.6	226.3
75°	85.5	116.5	162.6	190.3	196.2
77.5°	63.7	96.4	140.8	152.5	148.4
80°	45.3	77.1	109.8	103.9	106.4
82.5°	29.3	58.7	67.9	77.1	79.6
85°	16.8	34.4	41.9	45.3	46.9
87.5°	7.6	12.5	16.8	16.8	16.0
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)