

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: P734094

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734094  
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-CA125-4000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND RDP LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

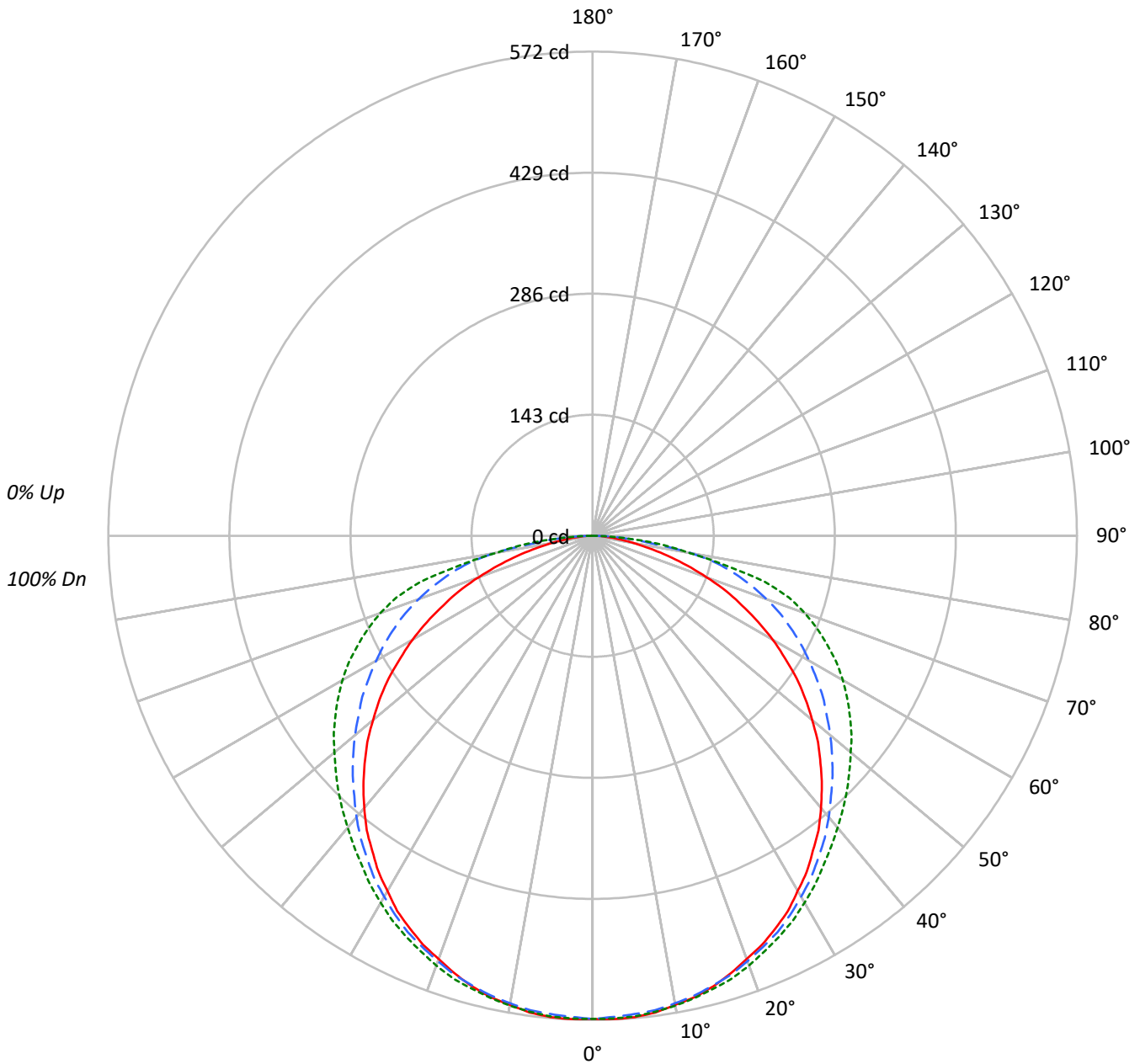
Lumens per Lamp: N/A  
Luminaire Lumens: 1815.0 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (Ain): 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	67	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°	806	806	806
5°	809	804	807
10°	806	804	808
15°	805	804	809
20°	799	803	811
25°	796	805	813
30°	789	802	816
35°	782	800	819
40°	773	799	829
45°	760	800	848
50°	743	804	874
55°	724	817	913
60°	694	834	963
65°	649	863	1022
70°	591	902	1100
75°	501	953	1149
80°	395	958	929
85°	291	729	816



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.1	3.0
10°-20°	155.8	8.6
20°-30°	238.3	13.1
30°-40°	291.3	16.0
40°-50°	310.5	17.1
50°-60°	296.8	16.4
60°-70°	251.5	13.9
70°-80°	169.0	9.3
80°-90°	47.7	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°	448.2	24.7
0°-40°	739.5	40.7
0°-60°	1346.9	74.2
0°-90°	1815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1815.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	571	570	567	570	570	54
15°	551	551	550	555	554	155
25°	511	513	517	521	522	236
35°	454	457	464	474	475	284
45°	381	387	401	418	425	294
55°	294	305	332	358	371	262
65°	194	214	258	293	306	193
75°	92	125	175	204	211	98
85°	18	37	45	49	50	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	570.8	570.8	570.8	570.8	570.8
2.5°	571.6	571.6	568.9	570.8	570.8
5°	570.8	569.9	567.2	569.9	569.9
7.5°	568.1	567.2	565.3	568.1	567.2
10°	562.6	562.6	560.9	563.6	563.6
12.5°	558.2	557.3	556.3	559.9	559.0
15°	551.0	551.0	550.0	554.6	553.6
17.5°	542.0	542.9	543.7	547.3	548.3
20°	532.0	533.9	534.7	540.2	540.2
22.5°	523.0	524.0	525.7	531.1	531.1
25°	511.4	513.1	516.7	521.3	522.1
27.5°	499.7	500.5	505.1	511.4	512.3
30°	484.4	487.1	492.4	499.7	500.5
32.5°	470.8	473.5	479.8	487.1	488.8
35°	453.8	457.3	464.5	473.5	475.4
37.5°	438.4	441.2	450.2	460.0	462.8
40°	419.6	424.9	433.9	445.6	450.2
42.5°	400.7	406.0	416.8	432.1	437.6
45°	380.8	387.1	400.7	417.7	424.9
47.5°	361.0	368.2	383.5	403.3	411.4
50°	338.5	347.5	366.4	388.9	398.0
52.5°	316.9	327.7	348.5	373.6	385.4
55°	294.4	305.1	332.2	358.3	370.9
57.5°	269.2	283.5	313.3	343.0	356.5
60°	245.8	259.2	295.3	327.7	341.2
62.5°	220.6	238.6	277.2	311.4	325.0
65°	194.4	214.3	258.4	292.6	306.1
67.5°	171.1	192.7	239.5	273.7	287.2
70°	143.2	170.1	218.7	252.9	266.5
72.5°	117.0	146.8	197.1	230.5	243.0
75°	91.8	125.2	174.7	204.4	210.7
77.5°	68.4	103.6	151.2	163.8	159.4
80°	48.6	82.8	117.9	111.6	114.3
82.5°	31.5	63.1	72.9	82.8	85.5
85°	18.0	36.9	45.0	48.6	50.4
87.5°	8.1	13.5	18.0	18.0	17.2
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)