

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: P734088

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734088  
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-CA08-3500K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

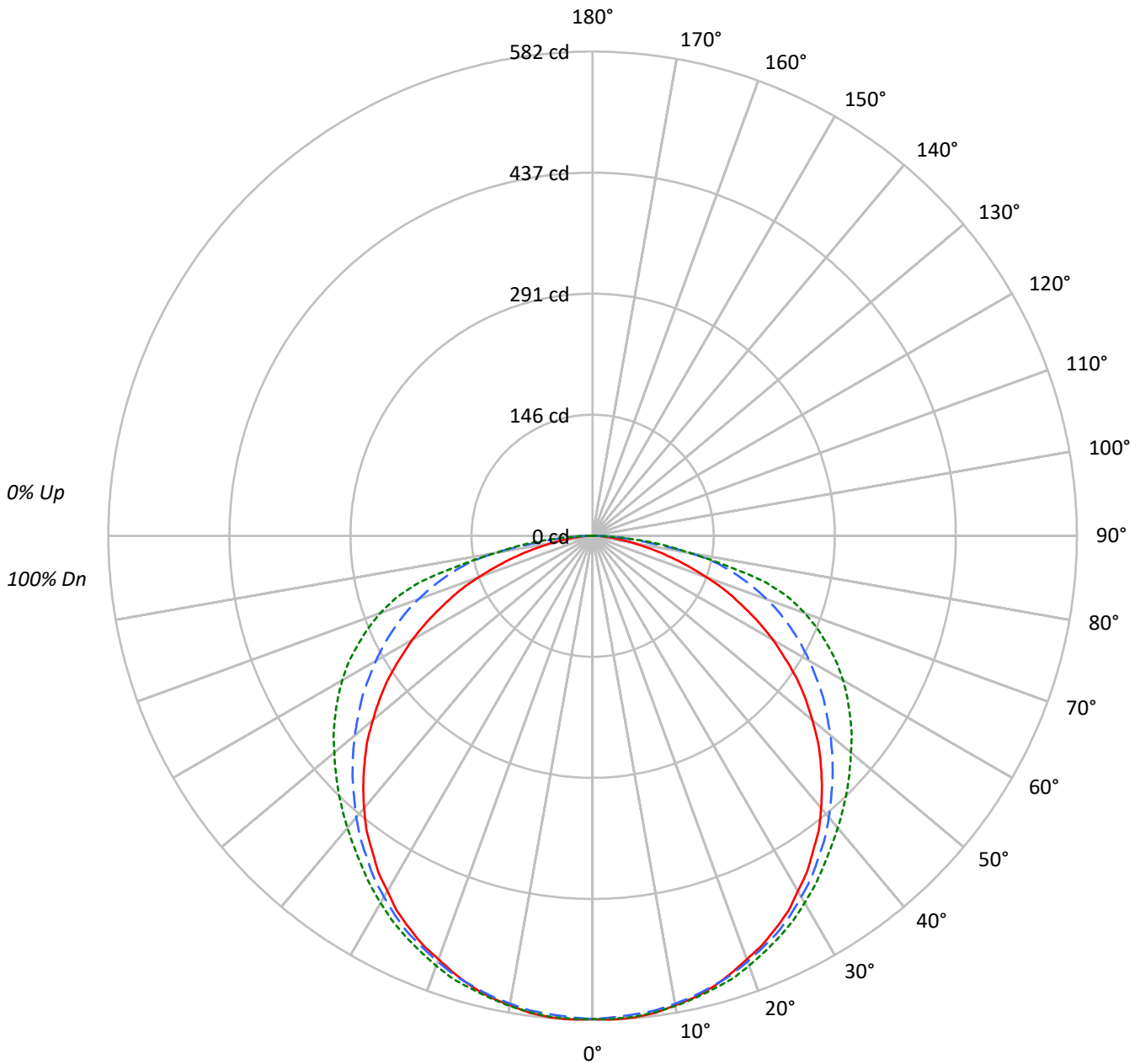
Lumens per Lamp: N/A  
Luminaire Lumens: 1848.0 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	820	820	820
5°	823	818	822
10°	821	818	822
15°	820	818	824
20°	814	818	826
25°	811	819	828
30°	804	817	830
35°	796	815	834
40°	787	814	845
45°	774	814	863
50°	757	819	890
55°	737	832	929
60°	706	848	981
65°	661	879	1041
70°	602	919	1120
75°	510	970	1170
80°	402	975	946
85°	296	743	831



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.1	3.0
10°-20°	158.7	8.6
20°-30°	242.6	13.1
30°-40°	296.6	16.0
40°-50°	316.1	17.1
50°-60°	302.2	16.4
60°-70°	256.0	13.9
70°-80°	172.1	9.3
80°-90°	48.5	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°	456.4	24.7
0°-40°	753.0	40.7
0°-60°	1371.3	74.2
0°-90°	1848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1848.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	581	581	581	581	581	
5°	581	580	578	580	580	55
15°	561	561	560	565	564	158
25°	521	522	526	531	532	240
35°	462	466	473	482	484	289
45°	388	394	408	425	433	299
55°	300	311	338	365	378	267
65°	198	218	263	298	312	197
75°	94	127	178	208	214	100
85°	18	38	46	50	51	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	581.1	581.1	581.1	581.1	581.1
2.5°	582.0	582.0	579.3	581.1	581.1
5°	581.1	580.3	577.5	580.3	580.3
7.5°	578.4	577.5	575.6	578.4	577.5
10°	572.9	572.9	571.1	573.9	573.9
12.5°	568.3	567.4	566.4	570.1	569.2
15°	561.0	561.0	560.0	564.7	563.7
17.5°	551.9	552.7	553.6	557.3	558.3
20°	541.7	543.6	544.5	550.0	550.0
22.5°	532.5	533.5	535.3	540.8	540.8
25°	520.7	522.5	526.1	530.7	531.6
27.5°	508.8	509.6	514.3	520.7	521.6
30°	493.2	495.9	501.3	508.8	509.6
32.5°	479.4	482.1	488.5	495.9	497.7
35°	462.0	465.6	472.9	482.1	484.0
37.5°	446.4	449.2	458.4	468.4	471.2
40°	427.2	432.6	441.8	453.7	458.4
42.5°	408.0	413.4	424.4	440.0	445.5
45°	387.7	394.1	408.0	425.3	432.6
47.5°	367.6	374.9	390.5	410.6	418.9
50°	344.6	353.8	373.0	396.0	405.2
52.5°	322.6	333.7	354.8	380.4	392.4
55°	299.7	310.7	338.2	364.8	377.7
57.5°	274.1	288.7	319.0	349.3	363.0
60°	250.2	263.9	300.6	333.7	347.4
62.5°	224.6	242.9	282.3	317.1	330.9
65°	198.0	218.2	263.1	297.9	311.7
67.5°	174.2	196.2	243.8	278.6	292.5
70°	145.8	173.2	222.7	257.5	271.3
72.5°	119.1	149.4	200.7	234.6	247.5
75°	93.5	127.4	177.8	208.1	214.5
77.5°	69.6	105.4	154.0	166.8	162.3
80°	49.5	84.3	120.0	113.6	116.4
82.5°	32.1	64.2	74.3	84.3	87.1
85°	18.3	37.6	45.9	49.5	51.3
87.5°	8.3	13.7	18.3	18.3	17.5
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)