

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: P734092

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P734092  
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-CA125-3000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

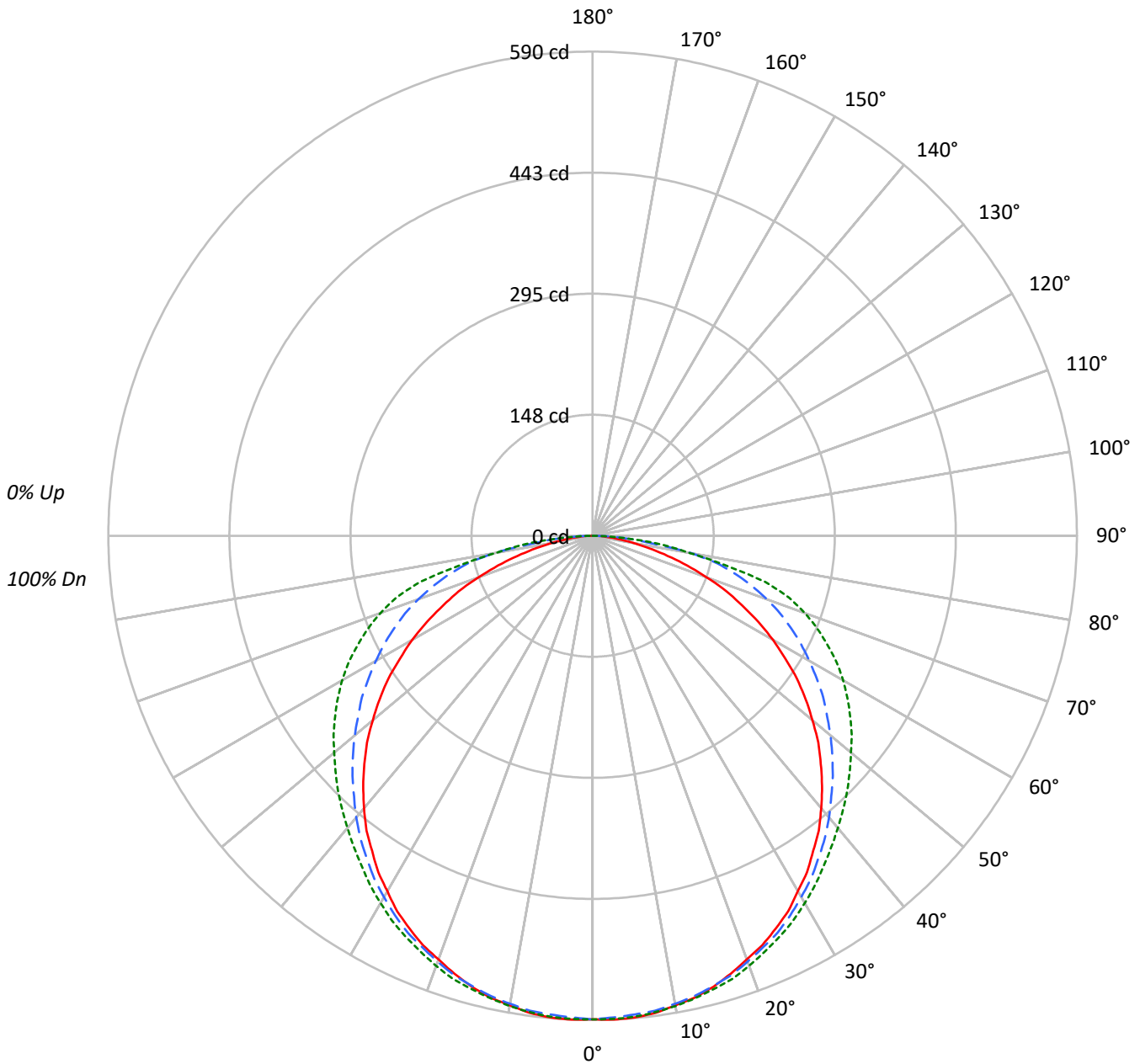
Lumens per Lamp: N/A  
Luminaire Lumens: 1874.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	832	832	832
5°	835	830	834
10°	832	830	834
15°	831	830	835
20°	825	829	838
25°	822	831	840
30°	815	829	842
35°	807	826	846
40°	798	825	856
45°	785	826	876
50°	767	831	902
55°	748	844	942
60°	716	861	994
65°	670	891	1056
70°	610	932	1136
75°	517	983	1187
80°	408	989	959
85°	301	753	842



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.9	3.0
10°-20°	160.9	8.6
20°-30°	246.0	13.1
30°-40°	300.8	16.0
40°-50°	320.6	17.1
50°-60°	306.5	16.4
60°-70°	259.6	13.9
70°-80°	174.5	9.3
80°-90°	49.2	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°	462.8	24.7
0°-40°	763.6	40.7
0°-60°	1390.7	74.2
0°-90°	1874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1874.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	589	589	589	589	589	
5°	589	588	586	588	588	56
15°	569	569	568	573	572	160
25°	528	530	534	538	539	243
35°	468	472	480	489	491	293
45°	393	400	414	431	439	303
55°	304	315	343	370	383	271
65°	201	221	267	302	316	199
75°	95	129	180	211	218	101
85°	19	38	46	50	52	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	589.3	589.3	589.3	589.3	589.3
2.5°	590.2	590.2	587.4	589.3	589.3
5°	589.3	588.4	585.6	588.4	588.4
7.5°	586.5	585.6	583.7	586.5	585.6
10°	580.9	580.9	579.1	581.9	581.9
12.5°	576.3	575.4	574.4	578.1	577.2
15°	568.9	568.9	567.9	572.6	571.6
17.5°	559.6	560.5	561.4	565.1	566.1
20°	549.3	551.2	552.1	557.7	557.7
22.5°	540.0	541.0	542.8	548.4	548.4
25°	528.0	529.8	533.5	538.2	539.1
27.5°	515.9	516.8	521.5	528.0	528.9
30°	500.1	502.9	508.4	515.9	516.8
32.5°	486.1	488.9	495.4	502.9	504.7
35°	468.5	472.2	479.6	488.9	490.8
37.5°	452.7	455.5	464.8	475.0	477.8
40°	433.2	438.7	448.0	460.1	464.8
42.5°	413.7	419.2	430.4	446.2	451.8
45°	393.2	399.7	413.7	431.3	438.7
47.5°	372.8	380.2	396.0	416.4	424.8
50°	349.5	358.8	378.3	401.6	410.9
52.5°	327.2	338.4	359.8	385.8	397.9
55°	304.0	315.1	343.0	370.0	383.0
57.5°	278.0	292.8	323.5	354.2	368.1
60°	253.8	267.7	304.9	338.4	352.3
62.5°	227.7	246.4	286.3	321.6	335.6
65°	200.7	221.2	266.8	302.1	316.1
67.5°	176.6	198.9	247.3	282.6	296.6
70°	147.8	175.6	225.8	261.2	275.2
72.5°	120.8	151.5	203.5	237.9	251.0
75°	94.8	129.2	180.3	211.0	217.6
77.5°	70.6	106.9	156.1	169.1	164.5
80°	50.2	85.5	121.7	115.2	118.0
82.5°	32.5	65.1	75.3	85.5	88.3
85°	18.6	38.1	46.5	50.2	52.0
87.5°	8.4	13.9	18.6	18.6	17.7
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)