

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: P733966

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733966  
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-CA125-2700K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND RDP LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

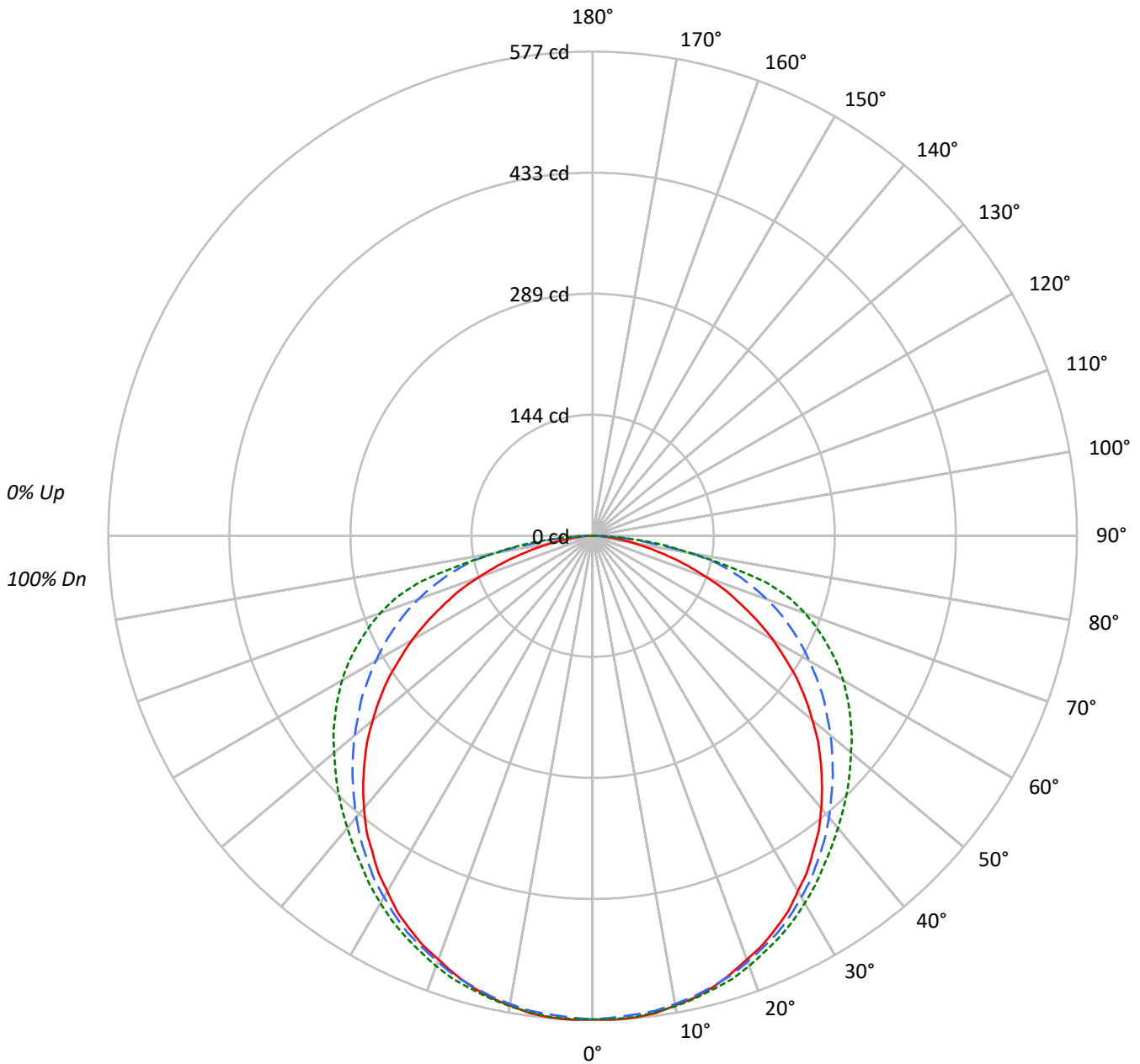
Lumens per Lamp: N/A  
Luminaire Lumens: 1833.0 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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									
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°	813	813	813
5°	817	812	815
10°	814	812	816
15°	813	812	817
20°	807	811	819
25°	804	813	821
30°	797	810	824
35°	790	808	827
40°	781	807	838
45°	768	808	856
50°	750	812	882
55°	732	826	922
60°	701	842	973
65°	656	871	1033
70°	597	912	1110
75°	505	962	1160
80°	399	968	938
85°	295	737	824



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.7	3.0
10°-20°	157.4	8.6
20°-30°	240.6	13.1
30°-40°	294.2	16.0
40°-50°	313.5	17.1
50°-60°	299.8	16.4
60°-70°	254.0	13.9
70°-80°	170.7	9.3
80°-90°	48.2	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°	452.7	24.7
0°-40°	746.9	40.7
0°-60°	1360.2	74.2
0°-90°	1833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1833.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	576	576	573	576	576	55
15°	556	556	556	560	559	157
25°	516	518	522	526	527	238
35°	458	462	469	478	480	287
45°	385	391	405	422	429	297
55°	297	308	336	362	375	265
65°	196	216	261	296	309	195
75°	93	126	176	206	213	99
85°	18	37	46	49	51	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	576.4	576.4	576.4	576.4	576.4
2.5°	577.3	577.3	574.6	576.4	576.4
5°	576.4	575.6	572.8	575.6	575.6
7.5°	573.7	572.8	571.0	573.7	572.8
10°	568.2	568.2	566.5	569.2	569.2
12.5°	563.7	562.8	561.9	565.5	564.6
15°	556.5	556.5	555.5	560.1	559.1
17.5°	547.4	548.3	549.1	552.8	553.7
20°	537.3	539.2	540.0	545.5	545.5
22.5°	528.2	529.2	530.9	536.4	536.4
25°	516.5	518.2	521.8	526.4	527.3
27.5°	504.6	505.5	510.1	516.5	517.3
30°	489.2	491.9	497.3	504.6	505.5
32.5°	475.5	478.2	484.6	491.9	493.7
35°	458.3	461.9	469.1	478.2	480.1
37.5°	442.8	445.5	454.6	464.6	467.4
40°	423.7	429.1	438.2	450.0	454.6
42.5°	404.6	410.0	421.0	436.4	441.9
45°	384.6	390.9	404.6	421.9	429.1
47.5°	364.6	371.9	387.3	407.3	415.5
50°	341.8	350.9	370.0	392.8	401.9
52.5°	320.0	331.0	351.9	377.3	389.2
55°	297.3	308.2	335.5	361.9	374.6
57.5°	271.9	286.4	316.4	346.4	360.0
60°	248.2	261.8	298.2	331.0	344.6
62.5°	222.8	241.0	280.0	314.5	328.2
65°	196.3	216.4	260.9	295.5	309.2
67.5°	172.8	194.6	241.8	276.4	290.1
70°	144.6	171.8	220.9	255.4	269.1
72.5°	118.2	148.2	199.1	232.7	245.5
75°	92.7	126.4	176.4	206.4	212.8
77.5°	69.1	104.6	152.7	165.4	160.9
80°	49.1	83.6	119.1	112.7	115.4
82.5°	31.8	63.7	73.7	83.6	86.4
85°	18.2	37.3	45.5	49.1	50.9
87.5°	8.2	13.6	18.2	18.2	17.3
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)