

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: P733980

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P733980  
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-CP250-5000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND RDP LENS, WITH, CP250 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

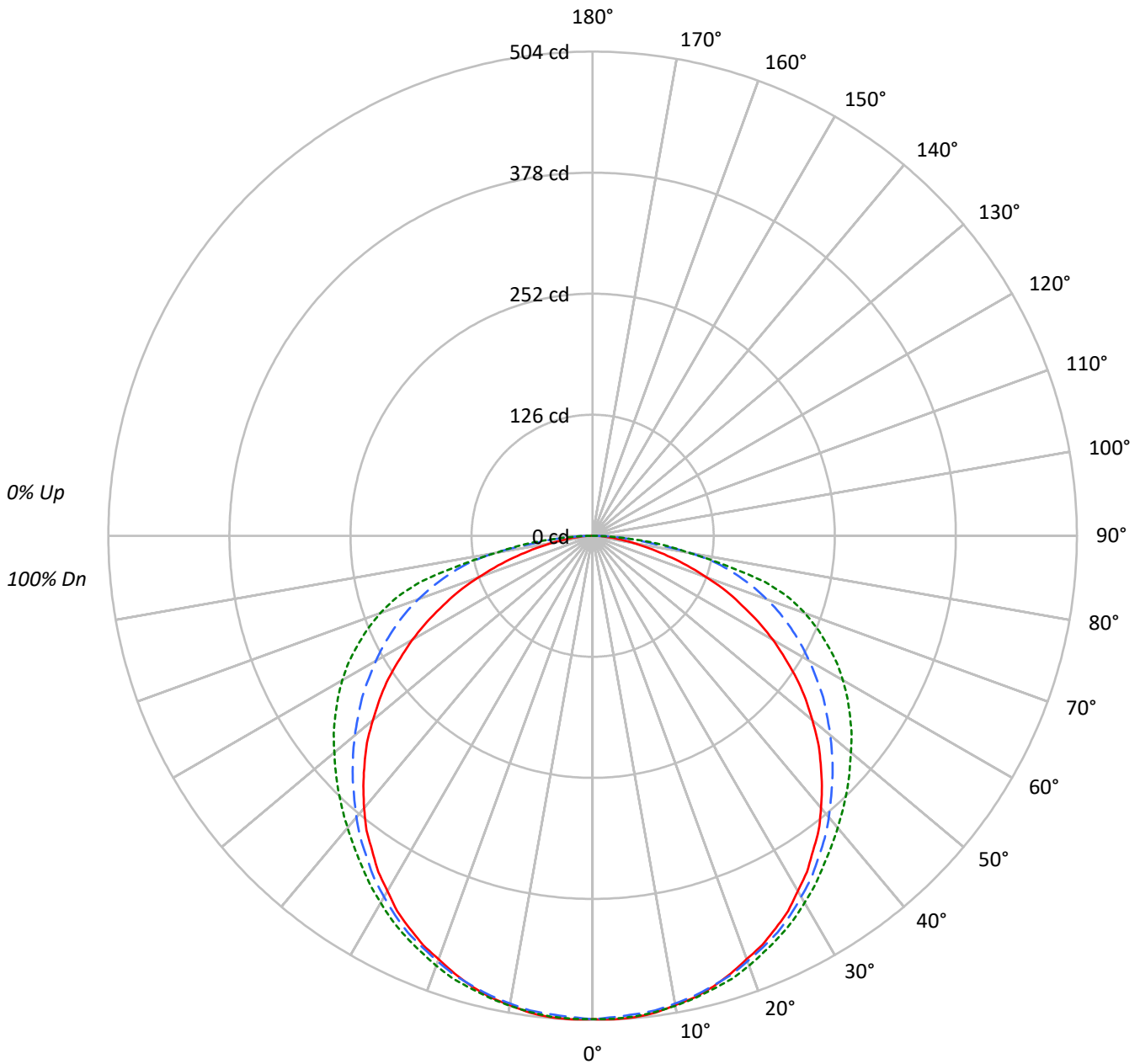
Lumens per Lamp: N/A  
Luminaire Lumens: 1600.0 lumens  
Efficiency: N/A  
Efficacy: 69.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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				20				20	
RC	80				70				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				100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82				82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67				67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56				56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47				47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40				40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35				35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27				27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24				24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22				22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	710	710	710
5°	713	708	712
10°	711	709	712
15°	710	709	713
20°	704	708	715
25°	702	709	717
30°	696	707	719
35°	689	706	722
40°	681	705	731
45°	670	705	747
50°	655	709	770
55°	639	720	805
60°	612	735	849
65°	572	761	901
70°	521	796	969
75°	442	840	1013
80°	349	844	819
85°	257	643	719



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.7	3.0
10°-20°	137.4	8.6
20°-30°	210.1	13.1
30°-40°	256.8	16.0
40°-50°	273.7	17.1
50°-60°	261.7	16.4
60°-70°	221.7	13.9
70°-80°	149.0	9.3
80°-90°	42.0	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°	395.2	24.7
0°-40°	651.9	40.7
0°-60°	1187.3	74.2
0°-90°	1600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1600.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	503	503	503	503	503	
5°	503	502	500	502	502	48
15°	486	486	485	489	488	137
25°	451	452	456	460	460	208
35°	400	403	410	417	419	251
45°	336	341	353	368	374	259
55°	260	269	293	316	327	231
65°	171	189	228	258	270	170
75°	81	110	154	180	186	87
85°	16	32	40	43	44	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	503.2	503.2	503.2	503.2	503.2
2.5°	503.9	503.9	501.5	503.2	503.2
5°	503.2	502.4	500.0	502.4	502.4
7.5°	500.8	500.0	498.4	500.8	500.0
10°	496.0	496.0	494.5	496.8	496.8
12.5°	492.1	491.3	490.4	493.6	492.8
15°	485.7	485.7	484.9	488.9	488.0
17.5°	477.8	478.6	479.3	482.5	483.4
20°	469.0	470.6	471.4	476.2	476.2
22.5°	461.1	461.9	463.4	468.2	468.2
25°	450.8	452.3	455.5	459.5	460.3
27.5°	440.5	441.2	445.3	450.8	451.6
30°	427.0	429.4	434.1	440.5	441.2
32.5°	415.0	417.4	423.0	429.4	430.9
35°	400.0	403.2	409.5	417.4	419.0
37.5°	386.5	388.9	396.8	405.6	407.9
40°	369.9	374.5	382.5	392.8	396.8
42.5°	353.2	357.9	367.5	381.0	385.7
45°	335.7	341.2	353.2	368.2	374.5
47.5°	318.3	324.6	338.1	355.5	362.7
50°	298.4	306.3	323.0	342.9	350.8
52.5°	279.3	288.9	307.2	329.4	339.7
55°	259.5	269.0	292.8	315.9	327.0
57.5°	237.3	250.0	276.2	302.4	314.3
60°	216.7	228.5	260.3	288.9	300.8
62.5°	194.5	210.3	244.4	274.5	286.5
65°	171.4	188.9	227.8	257.9	269.9
67.5°	150.8	169.9	211.1	241.2	253.2
70°	126.2	150.0	192.8	223.0	234.9
72.5°	103.2	129.4	173.8	203.2	214.3
75°	81.0	110.3	154.0	180.2	185.7
77.5°	60.3	91.3	133.3	144.4	140.5
80°	42.9	73.0	103.9	98.4	100.8
82.5°	27.8	55.6	64.3	73.0	75.4
85°	15.9	32.5	39.7	42.9	44.4
87.5°	7.2	11.9	15.9	15.9	15.1
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)