

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: P734101

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734101  
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-CP250-2700K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND RDP LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

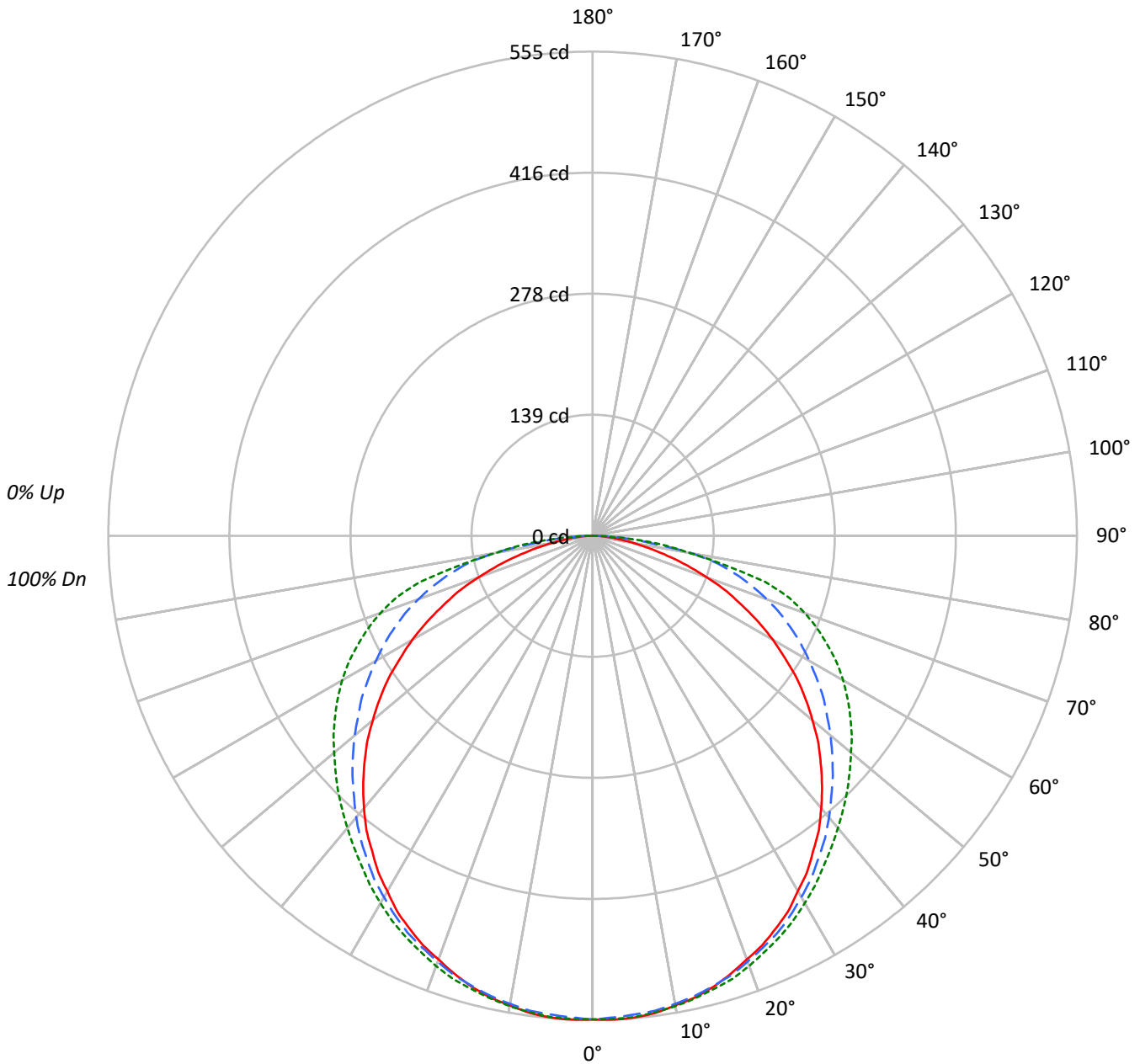
Lumens per Lamp: N/A  
Luminaire Lumens: 1763.0 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	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°	782	782	782
5°	785	780	784
10°	783	781	785
15°	782	781	786
20°	776	780	788
25°	773	782	790
30°	767	779	792
35°	759	777	795
40°	751	777	806
45°	738	777	824
50°	722	781	849
55°	704	794	887
60°	674	810	935
65°	631	838	993
70°	574	877	1068
75°	486	925	1116
80°	384	931	902
85°	283	709	792



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.6	3.0
10°-20°	151.4	8.6
20°-30°	231.5	13.1
30°-40°	283.0	16.0
40°-50°	301.6	17.1
50°-60°	288.3	16.4
60°-70°	244.3	13.9
70°-80°	164.2	9.3
80°-90°	46.3	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°	435.4	24.7
0°-40°	718.4	40.7
0°-60°	1308.3	74.2
0°-90°	1763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1763.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	554	554	554	554	554	
5°	554	554	551	554	554	53
15°	535	535	534	539	538	151
25°	497	498	502	506	507	229
35°	441	444	451	460	462	276
45°	370	376	389	406	413	285
55°	286	296	323	348	360	255
65°	189	208	251	284	297	188
75°	89	122	170	198	205	95
85°	18	36	44	47	49	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	554.4	554.4	554.4	554.4	554.4
2.5°	555.3	555.3	552.6	554.4	554.4
5°	554.4	553.6	550.9	553.6	553.6
7.5°	551.8	550.9	549.1	551.8	550.9
10°	546.5	546.5	544.8	547.5	547.5
12.5°	542.2	541.3	540.4	543.9	543.0
15°	535.2	535.2	534.3	538.7	537.8
17.5°	526.5	527.3	528.2	531.6	532.6
20°	516.8	518.6	519.4	524.7	524.7
22.5°	508.0	509.0	510.7	515.9	515.9
25°	496.7	498.4	501.9	506.3	507.2
27.5°	485.4	486.2	490.6	496.7	497.6
30°	470.5	473.1	478.3	485.4	486.2
32.5°	457.3	459.9	466.1	473.1	474.8
35°	440.8	444.2	451.2	459.9	461.7
37.5°	425.9	428.5	437.3	446.9	449.5
40°	407.5	412.7	421.5	432.8	437.3
42.5°	389.2	394.4	404.9	419.8	425.0
45°	369.9	376.0	389.2	405.7	412.7
47.5°	350.7	357.7	372.5	391.7	399.6
50°	328.8	337.5	355.9	377.8	386.6
52.5°	307.8	318.3	338.5	362.9	374.3
55°	286.0	296.4	322.7	348.1	360.3
57.5°	261.5	275.4	304.3	333.2	346.3
60°	238.7	251.8	286.8	318.3	331.4
62.5°	214.3	231.8	269.3	302.5	315.7
65°	188.8	208.1	251.0	284.2	297.3
67.5°	166.2	187.2	232.6	265.8	279.0
70°	139.1	165.2	212.5	245.7	258.9
72.5°	113.7	142.6	191.5	223.9	236.1
75°	89.2	121.6	169.7	198.5	204.7
77.5°	66.4	100.6	146.9	159.1	154.8
80°	47.2	80.5	114.5	108.4	111.0
82.5°	30.6	61.3	70.9	80.5	83.1
85°	17.5	35.9	43.8	47.2	48.9
87.5°	7.9	13.1	17.5	17.5	16.7
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)