

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: P734086

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734086  
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-CA08-2700K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND RDP LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

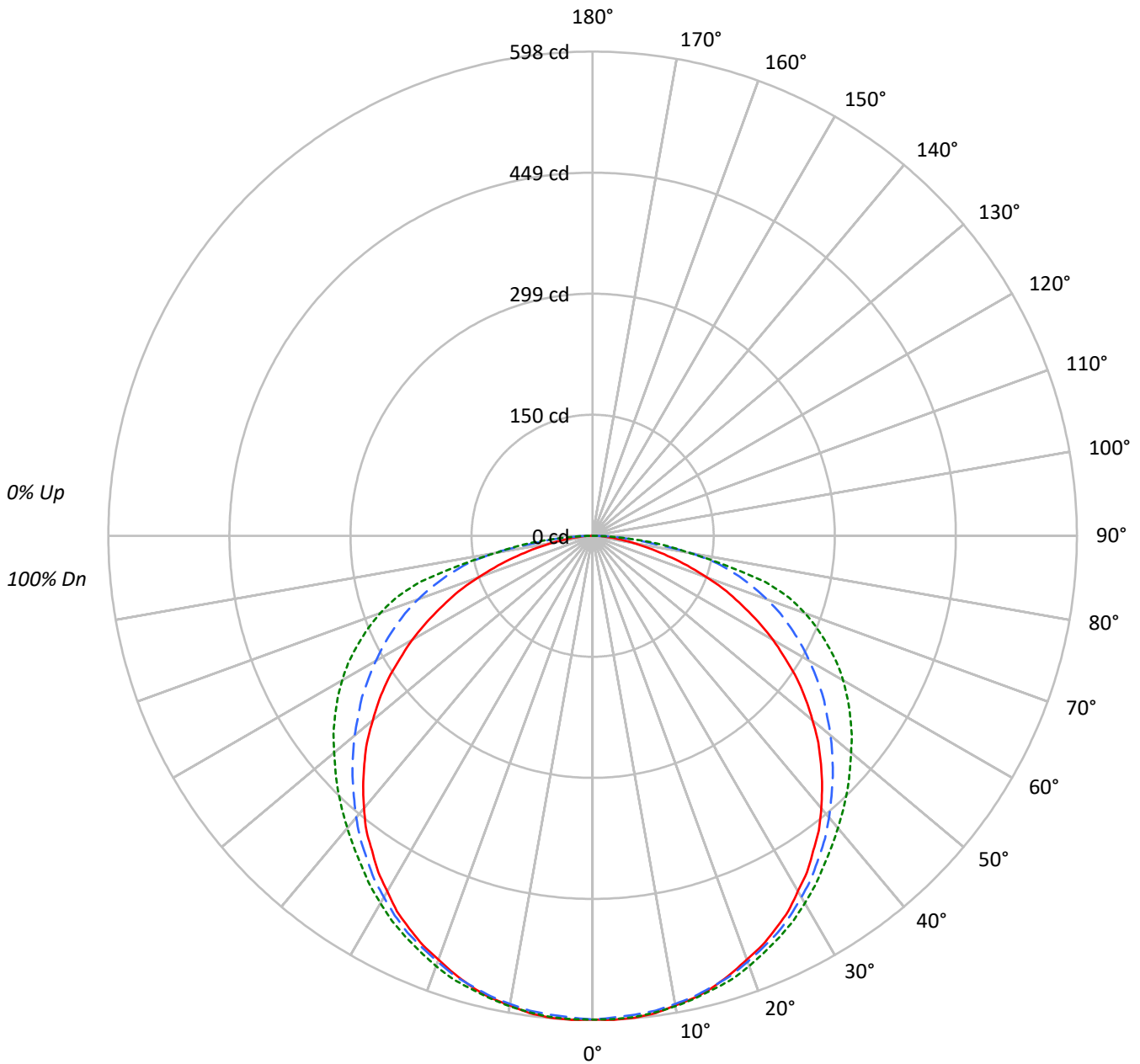
Lumens per Lamp: N/A  
Luminaire Lumens: 1900.1 lumens  
Efficiency: N/A  
Efficacy: 86.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (Ain): 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°	843	843	843
5°	846	841	845
10°	844	842	846
15°	843	841	847
20°	836	841	849
25°	834	842	851
30°	826	840	854
35°	818	838	857
40°	809	837	868
45°	796	837	888
50°	778	842	915
55°	758	856	955
60°	726	872	1008
65°	680	903	1070
70°	619	945	1151
75°	524	997	1203
80°	414	1003	973
85°	306	764	853



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.7	3.0
10°-20°	163.1	8.6
20°-30°	249.4	13.1
30°-40°	304.9	16.0
40°-50°	325.0	17.1
50°-60°	310.8	16.4
60°-70°	263.2	13.9
70°-80°	176.9	9.3
80°-90°	49.9	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°	469.3	24.7
0°-40°	774.2	40.7
0°-60°	1410.0	74.2
0°-90°	1900.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1900.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	598	597	594	597	597	57
15°	577	577	576	581	580	163
25°	535	537	541	546	547	247
35°	475	479	486	496	498	298
45°	399	405	419	437	445	307
55°	308	319	348	375	388	274
65°	204	224	270	306	320	202
75°	96	131	183	214	221	103
85°	19	39	47	51	53	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	597.5	597.5	597.5	597.5	597.5
2.5°	598.4	598.4	595.6	597.5	597.5
5°	597.5	596.6	593.8	596.6	596.6
7.5°	594.7	593.8	591.8	594.7	593.8
10°	589.0	589.0	587.2	590.0	590.0
12.5°	584.3	583.4	582.4	586.1	585.2
15°	576.8	576.8	575.8	580.6	579.5
17.5°	567.4	568.3	569.2	573.0	574.0
20°	556.9	558.9	559.8	565.5	565.5
22.5°	547.5	548.5	550.3	556.0	556.0
25°	535.3	537.2	540.9	545.7	546.6
27.5°	523.1	524.0	528.8	535.3	536.3
30°	507.0	509.9	515.5	523.1	524.0
32.5°	492.8	495.7	502.3	509.9	511.7
35°	475.0	478.8	486.3	495.7	497.6
37.5°	459.0	461.8	471.3	481.6	484.4
40°	439.2	444.8	454.2	466.5	471.3
42.5°	419.4	425.0	436.4	452.4	458.1
45°	398.6	405.2	419.4	437.3	444.8
47.5°	378.0	385.5	401.5	422.2	430.7
50°	354.3	363.8	383.5	407.2	416.6
52.5°	331.7	343.1	364.8	391.1	403.4
55°	308.2	319.4	347.7	375.1	388.3
57.5°	281.8	296.8	328.0	359.1	373.2
60°	257.3	271.4	309.1	343.1	357.2
62.5°	230.9	249.8	290.2	326.0	340.2
65°	203.5	224.3	270.5	306.3	320.5
67.5°	179.1	201.7	250.7	286.5	300.7
70°	149.9	178.1	229.0	264.8	279.0
72.5°	122.5	153.6	206.4	241.3	254.4
75°	96.1	131.0	182.8	214.0	220.6
77.5°	71.6	108.4	158.3	171.5	166.8
80°	50.9	86.7	123.4	116.8	119.7
82.5°	33.0	66.0	76.4	86.7	89.5
85°	18.9	38.6	47.2	50.9	52.7
87.5°	8.5	14.1	18.9	18.9	18.0
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)