

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: P734077

Luminaire Tested: **24FCZ2-30HE-HRP-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734077  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30HE-HRP-B2750-W2D-CP250-3000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

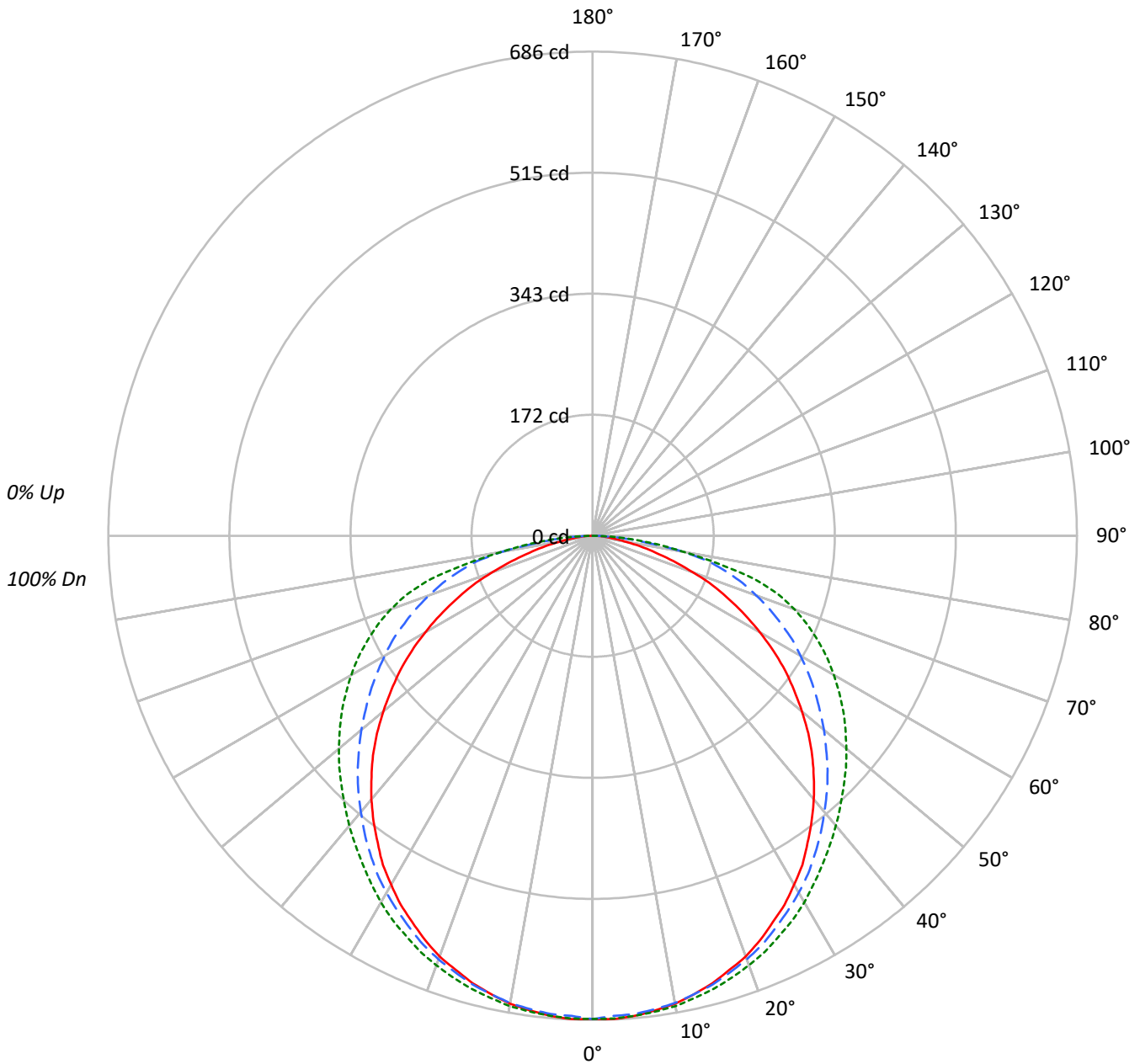
Lumens per Lamp: N/A  
Luminaire Lumens: 2110.0 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

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

	0°	45°	90°
0°	966	966	966
5°	967	964	967
10°	965	963	970
15°	959	962	971
20°	953	959	972
25°	941	955	974
30°	930	952	977
35°	915	947	978
40°	898	941	988
45°	878	940	1003
50°	849	939	1030
55°	819	945	1067
60°	773	960	1114
65°	714	982	1177
70°	624	1017	1254
75°	505	1069	1296
80°	373	1048	1048
85°	287	772	873



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.9	3.1
10°-20°	186.2	8.8
20°-30°	283.5	13.4
30°-40°	344.2	16.3
40°-50°	363.7	17.2
50°-60°	343.2	16.3
60°-70°	285.3	13.5
70°-80°	187.7	8.9
80°-90°	51.2	2.4
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°	534.6	25.3
0°-40°	878.8	41.7
0°-60°	1585.7	75.2
0°-90°	2110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2110.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	685	685	685	685	685	
5°	683	683	680	683	683	65
15°	656	657	658	664	664	185
25°	604	608	613	624	625	279
35°	531	537	550	564	568	332
45°	440	449	471	494	503	339
55°	333	347	384	420	434	297
65°	214	238	294	337	352	211
75°	93	135	196	232	238	100
85°	18	39	48	53	54	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	684.6	684.6	684.6	684.6	684.6
2.5°	685.5	684.6	681.0	684.6	684.6
5°	682.9	682.9	680.1	682.9	682.9
7.5°	678.4	678.4	676.6	680.1	680.1
10°	673.1	673.1	672.2	676.6	676.6
12.5°	665.2	666.0	665.2	670.4	670.4
15°	656.3	657.2	658.1	664.3	664.3
17.5°	644.9	646.6	648.3	655.4	656.3
20°	634.3	635.1	638.6	646.6	647.5
22.5°	620.1	622.8	627.2	635.1	637.8
25°	604.2	607.7	613.1	623.7	625.4
27.5°	589.1	591.9	598.9	610.3	613.9
30°	570.7	575.0	583.9	595.4	599.7
32.5°	553.0	557.4	567.9	580.4	583.9
35°	530.9	537.0	549.5	563.6	567.9
37.5°	509.7	515.8	530.9	546.8	552.1
40°	487.5	494.6	510.6	529.2	536.2
42.5°	463.7	473.5	491.2	511.5	519.4
45°	439.9	448.8	470.8	493.8	502.6
47.5°	414.2	424.8	448.8	476.1	486.7
50°	386.9	400.2	427.6	457.6	469.1
52.5°	359.5	374.5	405.4	439.0	451.4
55°	333.0	347.2	384.2	420.5	433.7
57.5°	303.9	321.5	362.1	401.0	414.2
60°	273.9	293.3	340.1	380.7	394.8
62.5°	243.8	265.9	318.9	359.5	374.5
65°	213.8	238.5	294.2	337.4	352.4
67.5°	184.6	212.0	271.1	314.5	329.5
70°	151.1	185.5	246.4	288.8	303.9
72.5°	120.2	159.9	222.6	262.4	275.6
75°	92.7	135.1	196.1	232.4	237.6
77.5°	68.1	110.4	168.7	181.1	182.0
80°	45.9	88.4	129.0	127.2	129.0
82.5°	30.0	66.2	81.3	91.0	91.9
85°	17.7	38.9	47.7	53.0	53.9
87.5°	8.8	13.2	16.8	17.7	19.4
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)