

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: P734127

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734127  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30HE-S-B2750-W2D-CP250-3000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

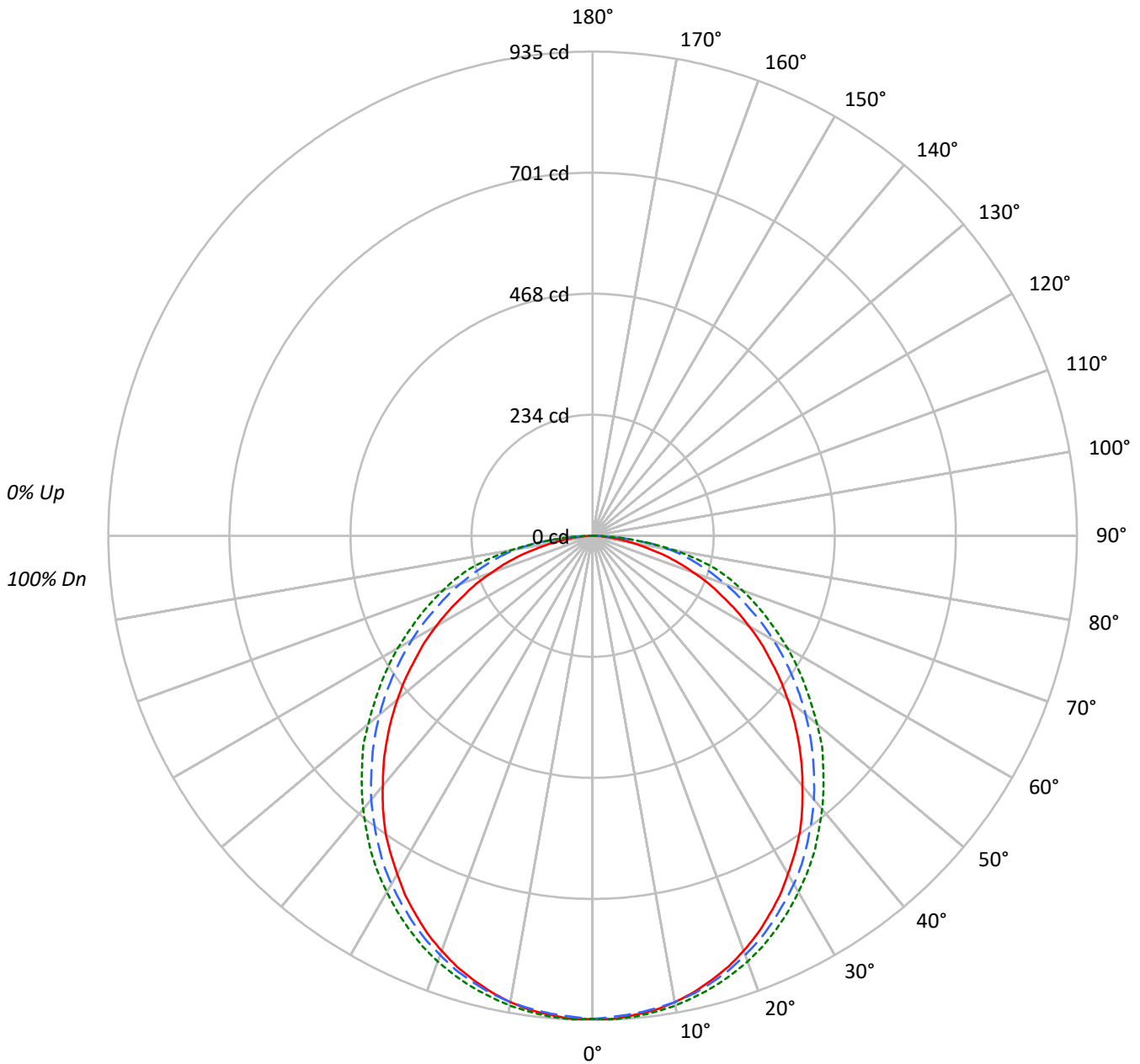
Lumens per Lamp: N/A  
Luminaire Lumens: 2656.0 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

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

	0°	45°	90°
0°	1317	1317	1317
5°	1316	1312	1321
10°	1311	1311	1320
15°	1298	1304	1318
20°	1281	1294	1314
25°	1257	1281	1306
30°	1229	1266	1295
35°	1202	1246	1285
40°	1161	1225	1270
45°	1123	1201	1256
50°	1080	1178	1241
55°	1032	1156	1229
60°	983	1138	1226
65°	921	1118	1234
70°	853	1124	1267
75°	764	1146	1339
80°	617	1213	1309
85°	465	1066	1038



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.3	3.3
10°-20°	252.4	9.5
20°-30°	379.4	14.3
30°-40°	451.9	17.0
40°-50°	462.5	17.4
50°-60°	416.4	15.7
60°-70°	327.0	12.3
70°-80°	212.2	8.0
80°-90°	65.7	2.5
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°	720.2	27.1
0°-40°	1172.1	44.1
0°-60°	2051.1	77.2
0°-90°	2656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2656.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	929	931	926	931	932	88
15°	888	891	893	900	902	250
25°	807	814	822	836	839	372
35°	698	706	723	741	746	435
45°	563	576	602	624	629	434
55°	419	438	470	494	500	376
65°	276	297	335	363	370	275
75°	140	167	210	239	246	148
85°	29	53	66	64	64	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	933.1	933.1	933.1	933.1	933.1
2.5°	933.9	933.9	929.7	933.9	934.7
5°	928.8	930.6	926.3	931.4	932.2
7.5°	923.8	923.8	921.2	926.3	927.2
10°	914.5	915.3	914.5	920.4	921.2
12.5°	902.7	904.3	905.3	911.2	912.0
15°	888.4	890.9	892.6	900.2	901.9
17.5°	872.3	874.9	879.0	887.5	889.2
20°	852.9	856.3	861.4	872.3	874.9
22.5°	831.9	835.2	843.7	853.7	858.0
25°	807.4	814.1	822.5	836.0	838.6
27.5°	782.9	788.8	799.8	814.1	817.5
30°	754.2	763.5	777.0	791.3	794.7
32.5°	726.4	735.6	751.7	766.9	771.1
35°	697.7	706.1	723.0	740.7	745.8
37.5°	664.8	675.7	694.3	712.0	717.1
40°	630.2	643.7	664.8	683.4	689.3
42.5°	597.3	611.6	632.7	653.0	659.7
45°	562.7	576.2	601.5	624.3	629.4
47.5°	527.2	542.5	569.4	592.2	600.6
50°	491.9	507.9	536.6	560.2	565.3
52.5°	456.4	473.3	503.7	529.0	531.5
55°	419.3	437.9	469.9	494.4	499.5
57.5°	385.5	401.6	436.2	461.5	467.4
60°	348.4	366.1	403.2	426.9	434.4
62.5°	313.0	331.6	370.4	394.0	400.7
65°	275.9	297.0	334.9	362.8	369.5
67.5°	243.8	264.1	304.5	331.6	338.3
70°	206.6	229.5	272.5	300.4	307.1
72.5°	174.6	198.2	241.3	268.2	278.4
75°	140.1	167.0	210.1	238.8	245.5
77.5°	106.3	137.5	181.3	203.3	203.3
80°	75.9	108.9	149.3	159.5	161.1
82.5°	49.8	81.8	110.5	109.7	109.7
85°	28.7	53.2	65.8	64.1	64.1
87.5°	11.0	22.0	23.6	23.6	22.8
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)