

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: P734126

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734126  
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-CP250-2700K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

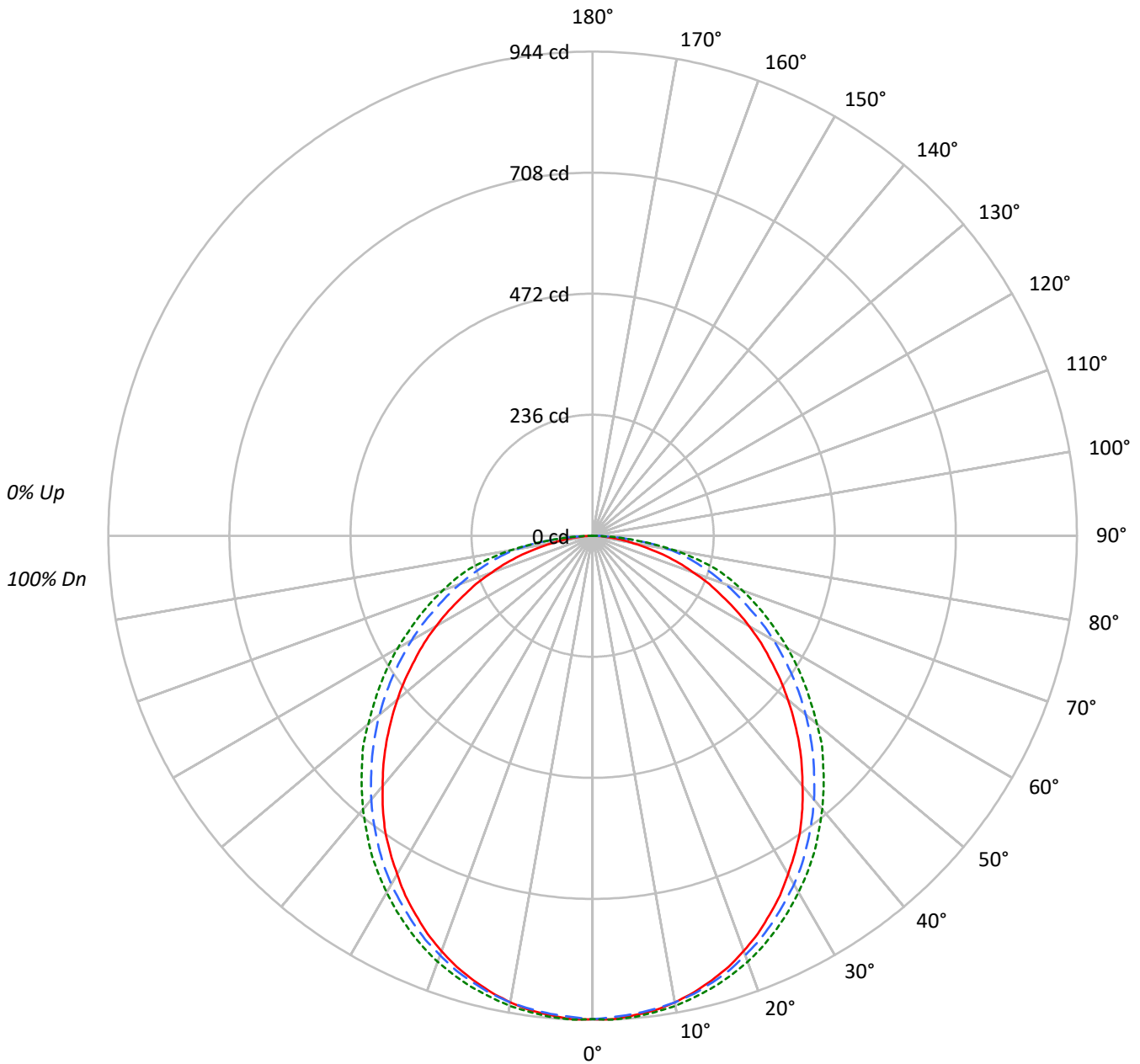
Lumens per Lamp: N/A  
Luminaire Lumens: 2683.0 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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					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								
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°	1330	1330	1330
5°	1329	1326	1334
10°	1324	1324	1334
15°	1311	1317	1331
20°	1294	1307	1327
25°	1270	1294	1319
30°	1242	1279	1308
35°	1214	1258	1298
40°	1173	1237	1283
45°	1134	1213	1269
50°	1091	1190	1254
55°	1042	1168	1242
60°	994	1150	1239
65°	931	1130	1246
70°	861	1136	1280
75°	772	1157	1352
80°	623	1226	1322
85°	470	1075	1049



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.2	3.3
10°-20°	255.0	9.5
20°-30°	383.3	14.3
30°-40°	456.5	17.0
40°-50°	467.2	17.4
50°-60°	420.7	15.7
60°-70°	330.4	12.3
70°-80°	214.4	8.0
80°-90°	66.3	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°	727.5	27.1
0°-40°	1184.0	44.1
0°-60°	2071.9	77.2
0°-90°	2683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2683.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	943	943	943	943	943	
5°	938	940	936	941	942	89
15°	897	900	902	909	911	253
25°	816	822	831	844	847	376
35°	705	713	730	748	753	440
45°	568	582	608	631	636	438
55°	424	442	475	499	505	380
65°	279	300	338	366	373	277
75°	142	169	212	241	248	150
85°	29	54	66	65	65	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	942.6	942.6	942.6	942.6	942.6
2.5°	943.4	943.4	939.1	943.4	944.2
5°	938.3	940.0	935.7	940.9	941.7
7.5°	933.2	933.2	930.6	935.7	936.6
10°	923.8	924.6	923.8	929.8	930.6
12.5°	911.9	913.5	914.5	920.4	921.2
15°	897.4	900.0	901.6	909.3	911.1
17.5°	881.2	883.8	888.0	896.5	898.2
20°	861.6	865.0	870.1	881.2	883.8
22.5°	840.3	843.7	852.2	862.4	866.7
25°	815.6	822.4	830.9	844.5	847.1
27.5°	790.8	796.8	807.9	822.4	825.9
30°	761.9	771.2	784.9	799.4	802.7
32.5°	733.7	743.1	759.3	774.7	778.9
35°	704.8	713.3	730.4	748.2	753.4
37.5°	671.5	682.6	701.4	719.3	724.4
40°	636.6	650.3	671.5	690.3	696.3
42.5°	603.3	617.8	639.2	659.6	666.4
45°	568.4	582.1	607.7	630.7	635.8
47.5°	532.6	548.0	575.2	598.2	606.7
50°	496.9	513.1	542.0	565.9	571.0
52.5°	461.0	478.1	508.8	534.3	536.9
55°	423.6	442.3	474.7	499.4	504.6
57.5°	389.5	405.7	440.6	466.2	472.1
60°	352.0	369.9	407.3	431.3	438.9
62.5°	316.2	334.9	374.2	398.0	404.8
65°	278.7	300.0	338.3	366.5	373.2
67.5°	246.3	266.8	307.6	334.9	341.7
70°	208.7	231.9	275.3	303.4	310.2
72.5°	176.4	200.2	243.8	271.0	281.2
75°	141.5	168.7	212.2	241.2	248.0
77.5°	107.4	138.9	183.2	205.4	205.4
80°	76.7	110.0	150.8	161.1	162.7
82.5°	50.3	82.7	111.6	110.8	110.8
85°	29.0	53.7	66.4	64.8	64.8
87.5°	11.1	22.2	23.8	23.8	23.0
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)