

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: P734137

Luminaire Tested: **24FCZ2-30HE-SQR-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734137  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30HE-SQR-B2750-W2D-CA08-3000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND SQR LENS, WITH, CA08 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

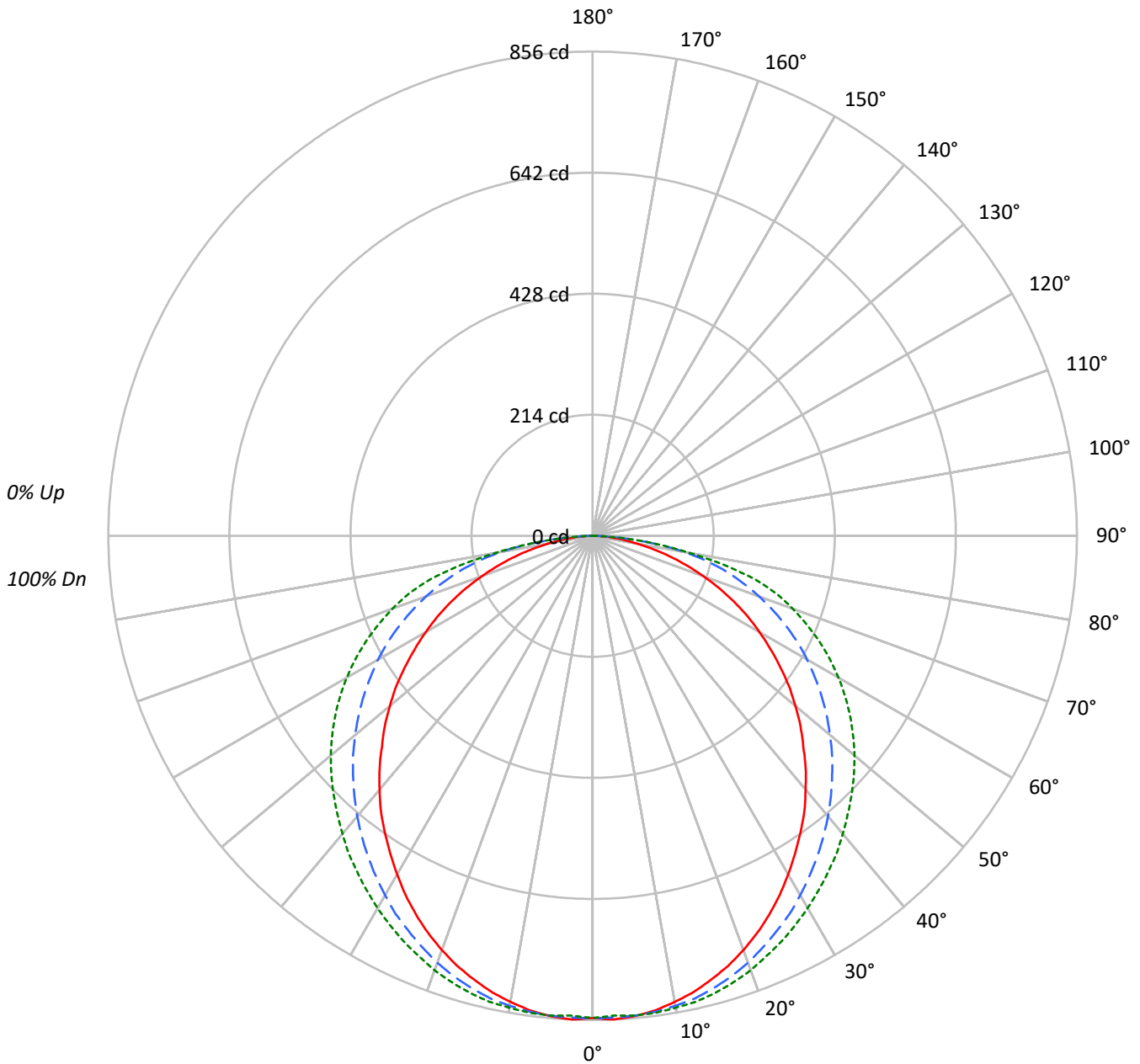
Lumens per Lamp: N/A  
Luminaire Lumens: 2667.0 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	89	86	84	82																			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

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

	0°	45°	90°
0°	1203	1203	1203
5°	1208	1207	1207
10°	1199	1209	1214
15°	1186	1210	1223
20°	1171	1206	1228
25°	1151	1200	1232
30°	1127	1196	1239
35°	1103	1193	1250
40°	1079	1193	1267
45°	1051	1195	1292
50°	1027	1203	1327
55°	997	1216	1367
60°	962	1235	1417
65°	920	1259	1476
70°	854	1290	1552
75°	773	1335	1623
80°	651	1339	1396
85°	499	1012	1012



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.9	3.0
10°-20°	232.8	8.7
20°-30°	353.6	13.3
30°-40°	430.2	16.1
40°-50°	458.0	17.2
50°-60°	436.2	16.4
60°-70°	364.8	13.7
70°-80°	243.2	9.1
80°-90°	67.3	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°	667.4	25.0
0°-40°	1097.5	41.2
0°-60°	1991.7	74.7
0°-90°	2667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2667.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	852	847	852	852	852	81
15°	812	814	828	834	837	229
25°	739	748	771	784	791	340
35°	640	659	692	715	726	401
45°	527	555	599	632	647	407
55°	405	440	494	537	556	362
65°	276	316	377	424	442	272
75°	142	187	245	286	298	150
85°	31	57	62	62	62	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	852.5	852.5	852.5	852.5	852.5
2.5°	856.0	849.8	852.5	852.5	849.0
5°	852.5	847.2	851.7	851.7	851.7
7.5°	846.4	841.9	849.0	850.7	850.7
10°	836.7	834.9	843.8	846.4	847.2
12.5°	826.1	825.2	837.6	841.0	843.8
15°	811.9	813.8	827.8	834.0	836.7
17.5°	797.1	800.5	816.4	825.2	827.8
20°	779.4	784.7	803.2	811.9	817.3
22.5°	760.1	768.0	787.3	797.9	804.0
25°	738.9	748.5	770.6	783.8	790.9
27.5°	716.0	728.4	753.9	768.8	775.9
30°	691.3	705.4	733.7	751.3	760.1
32.5°	665.8	682.5	713.4	732.7	743.3
35°	640.3	658.8	692.2	715.1	725.6
37.5°	614.7	633.2	670.2	694.9	708.1
40°	585.7	607.6	647.4	674.6	687.9
42.5°	557.5	581.2	623.5	653.4	667.6
45°	526.6	554.9	598.8	632.4	647.4
47.5°	498.4	526.6	574.2	609.5	626.2
50°	467.7	497.5	547.8	586.6	604.2
52.5°	437.7	468.6	521.3	562.8	580.4
55°	405.2	440.3	494.1	537.2	555.7
57.5°	372.5	410.4	465.8	510.8	529.4
60°	340.8	379.5	437.7	482.7	502.0
62.5°	309.1	347.8	408.6	454.4	472.9
65°	275.6	316.1	376.9	423.6	442.1
67.5°	242.2	284.4	345.2	391.9	409.5
70°	206.9	251.9	312.7	358.5	376.1
72.5°	174.4	219.3	279.2	324.1	340.8
75°	141.8	186.7	244.8	286.3	297.7
77.5°	110.1	155.0	206.9	234.3	236.9
80°	80.1	122.5	164.7	172.6	171.7
82.5°	53.7	91.6	113.7	114.5	117.1
85°	30.8	57.2	62.5	61.7	62.5
87.5°	12.4	20.3	17.6	13.2	13.2
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)