

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: P734015

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734015  
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: 24FCZ2-30-SQR-B2750-W2D-CA08-5000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND SQR LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

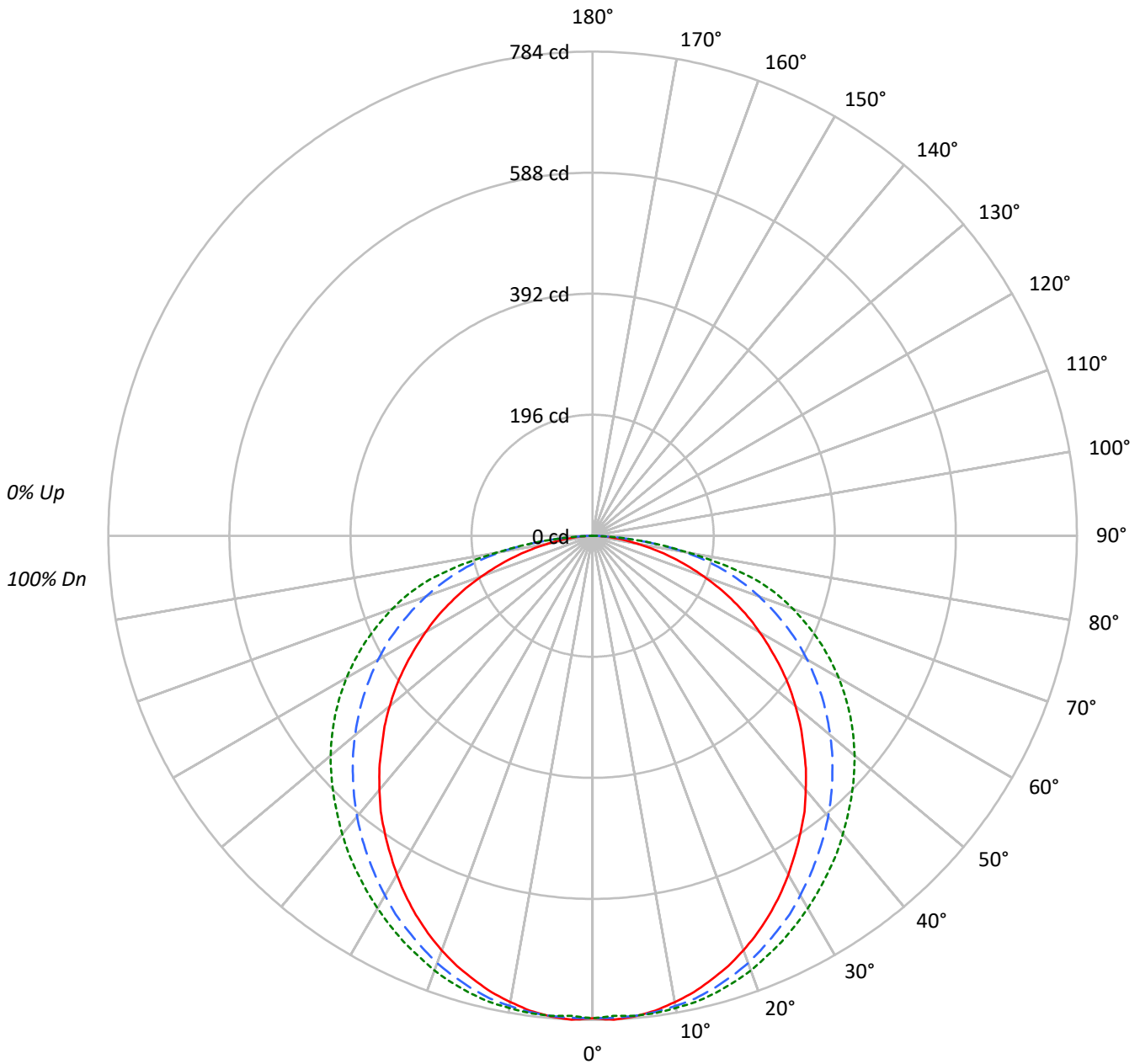
Lumens per Lamp: N/A  
Luminaire Lumens: 2444.0 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
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°	1103	1103	1103
5°	1107	1106	1106
10°	1099	1108	1113
15°	1087	1108	1120
20°	1073	1106	1125
25°	1054	1100	1129
30°	1032	1096	1135
35°	1011	1093	1146
40°	989	1093	1161
45°	963	1095	1184
50°	941	1102	1216
55°	914	1114	1253
60°	882	1132	1298
65°	844	1153	1353
70°	782	1182	1422
75°	709	1223	1488
80°	597	1226	1278
85°	457	928	928



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.2	3.0
10°-20°	213.4	8.7
20°-30°	324.1	13.3
30°-40°	394.2	16.1
40°-50°	419.7	17.2
50°-60°	399.7	16.4
60°-70°	334.3	13.7
70°-80°	222.9	9.1
80°-90°	61.7	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°	611.6	25.0
0°-40°	1005.8	41.2
0°-60°	1825.2	74.7
0°-90°	2444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2444.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	781	776	780	780	780	74
15°	744	746	759	764	767	210
25°	677	686	706	718	725	312
35°	587	604	634	655	665	367
45°	483	508	549	580	593	373
55°	371	404	453	492	509	332
65°	253	290	345	388	405	250
75°	130	171	224	262	273	138
85°	28	52	57	56	57	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	781.2	781.2	781.2	781.2	781.2
2.5°	784.4	778.8	781.2	781.2	778.0
5°	781.2	776.4	780.4	780.4	780.4
7.5°	775.6	771.5	778.0	779.6	779.6
10°	766.7	765.1	773.2	775.6	776.4
12.5°	757.1	756.2	767.5	770.7	773.2
15°	744.0	745.7	758.6	764.3	766.7
17.5°	730.4	733.6	748.1	756.2	758.6
20°	714.3	719.1	736.1	744.0	749.0
22.5°	696.5	703.8	721.5	731.1	736.8
25°	677.1	685.9	706.2	718.2	724.8
27.5°	656.2	667.5	690.9	704.5	711.0
30°	633.5	646.4	672.3	688.5	696.5
32.5°	610.1	625.4	653.7	671.5	681.1
35°	586.7	603.7	634.3	655.3	665.0
37.5°	563.3	580.2	614.2	636.8	648.9
40°	536.7	556.8	593.2	618.2	630.4
42.5°	510.9	532.6	571.4	598.8	611.8
45°	482.6	508.5	548.8	579.5	593.2
47.5°	456.8	482.6	526.2	558.5	573.8
50°	428.6	455.9	502.0	537.5	553.7
52.5°	401.1	429.4	477.7	515.7	531.9
55°	371.3	403.5	452.8	492.3	509.2
57.5°	341.4	376.1	426.9	468.1	485.1
60°	312.3	347.8	401.1	442.3	460.0
62.5°	283.3	318.7	374.4	416.4	433.4
65°	252.6	289.7	345.4	388.2	405.2
67.5°	221.9	260.6	316.3	359.1	375.3
70°	189.6	230.9	286.5	328.5	344.6
72.5°	159.8	201.0	255.8	297.0	312.3
75°	130.0	171.1	224.3	262.3	272.8
77.5°	100.9	142.0	189.6	214.7	217.1
80°	73.4	112.2	150.9	158.2	157.3
82.5°	49.2	83.9	104.2	104.9	107.3
85°	28.2	52.4	57.3	56.5	57.3
87.5°	11.3	18.6	16.2	12.1	12.1
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)