

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: P734018

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734018
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-CA125-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SQR LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

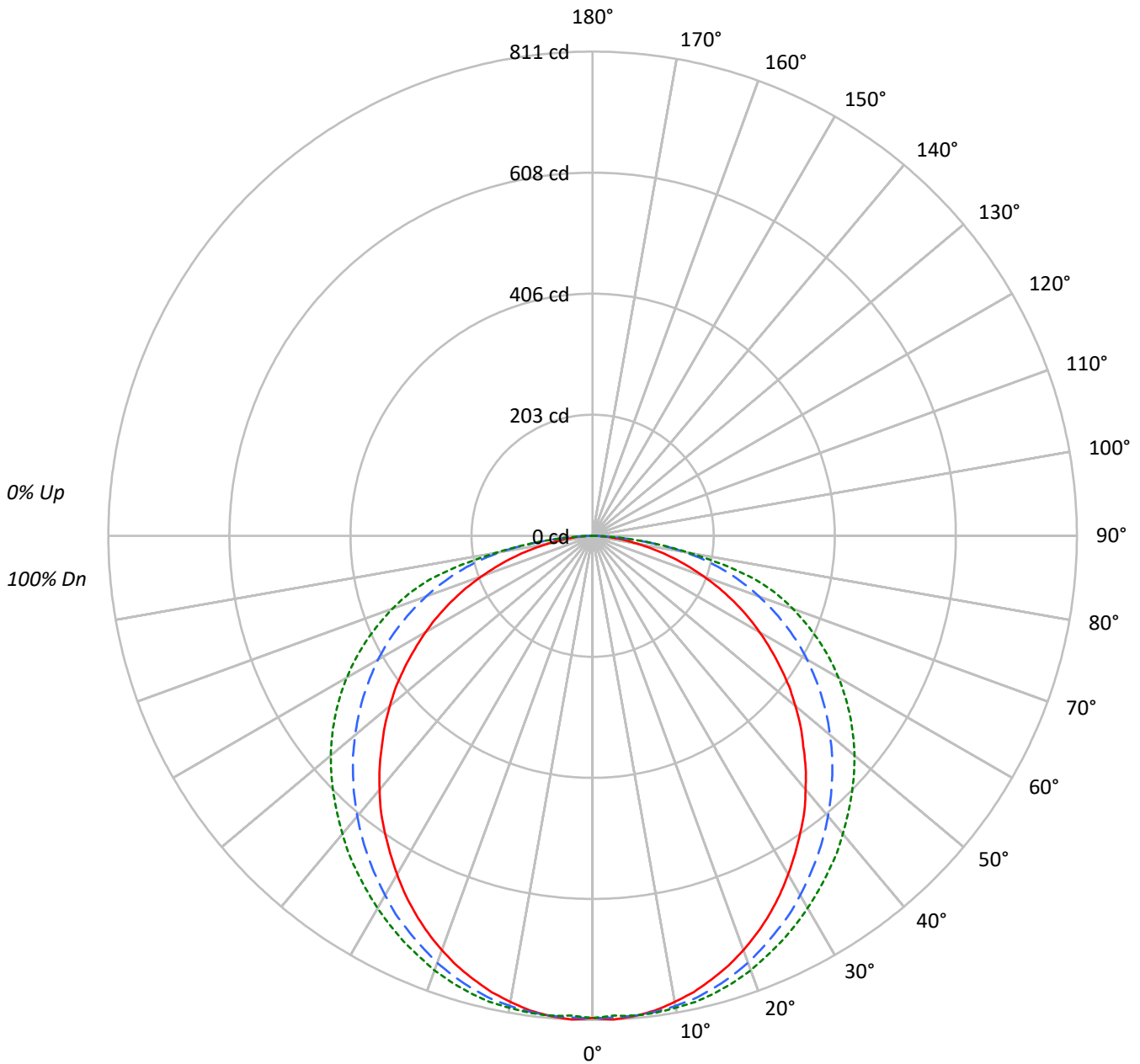
Lumens per Lamp: N/A
Luminaire Lumens: 2527.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (A_{in}): 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	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100		
	1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82	82	82	82	82	82		
	2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67	67	67	67	67	67		
	3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56	56	56	56	56	56		
	4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47	47	47	47	47	47		
	5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41	41	41	41	41	41		
	6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35	35	35	35	35	35		
	7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31	31	31	31	31	31		
	8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28	28	28	28	28	28		
	9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25	25	25	25	25	25		
	10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22	22	22	22	22	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1140	1140	1140
5°	1144	1143	1143
10°	1136	1146	1150
15°	1124	1146	1158
20°	1109	1143	1163
25°	1090	1137	1167
30°	1067	1133	1174
35°	1045	1130	1185
40°	1022	1130	1201
45°	996	1132	1224
50°	973	1140	1257
55°	945	1152	1296
60°	912	1171	1342
65°	872	1193	1399
70°	809	1223	1471
75°	733	1265	1538
80°	617	1269	1322
85°	473	959	959



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	3.0
10°-20°	220.6	8.7
20°-30°	335.1	13.3
30°-40°	407.6	16.1
40°-50°	433.9	17.2
50°-60°	413.3	16.4
60°-70°	345.6	13.7
70°-80°	230.5	9.1
80°-90°	63.8	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°	632.4	25.0
0°-40°	1039.9	41.2
0°-60°	1887.2	74.7
0°-90°	2527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2527.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	808	803	807	807	807	77
15°	769	771	784	790	793	217
25°	700	709	730	743	749	322
35°	607	624	656	678	688	380
45°	499	526	567	599	613	386
55°	384	417	468	509	526	343
65°	261	300	357	401	419	258
75°	134	177	232	271	282	142
85°	29	54	59	58	59	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	807.7	807.7	807.7	807.7	807.7
2.5°	811.1	805.2	807.7	807.7	804.5
5°	807.7	802.7	806.9	806.9	806.9
7.5°	802.0	797.7	804.5	806.1	806.1
10°	792.7	791.1	799.5	802.0	802.7
12.5°	782.8	781.9	793.6	796.9	799.5
15°	769.3	771.1	784.4	790.2	792.7
17.5°	755.2	758.5	773.5	781.9	784.4
20°	738.5	743.5	761.1	769.3	774.4
22.5°	720.2	727.7	746.0	756.0	761.8
25°	700.1	709.2	730.2	742.6	749.4
27.5°	678.4	690.2	714.3	728.4	735.2
30°	655.0	668.4	695.1	711.8	720.2
32.5°	630.8	646.7	675.9	694.3	704.3
35°	606.6	624.2	655.9	677.6	687.5
37.5°	582.5	599.9	635.1	658.4	671.0
40°	554.9	575.7	613.4	639.2	651.8
42.5°	528.2	550.7	590.8	619.1	632.6
45°	499.0	525.7	567.4	599.2	613.4
47.5°	472.3	499.0	544.1	577.5	593.3
50°	443.1	471.4	519.0	555.8	572.5
52.5°	414.7	444.0	494.0	533.2	549.9
55°	383.9	417.2	468.2	509.0	526.5
57.5°	353.0	388.9	441.4	484.0	501.6
60°	323.0	359.6	414.7	457.3	475.6
62.5°	292.9	329.6	387.2	430.5	448.1
65°	261.1	299.5	357.1	401.4	418.9
67.5°	229.5	269.5	327.1	371.3	388.0
70°	196.1	238.7	296.3	339.7	356.4
72.5°	165.3	207.8	264.5	307.1	323.0
75°	134.4	176.9	232.0	271.2	282.1
77.5°	104.3	146.8	196.1	222.0	224.5
80°	75.9	116.0	156.1	163.5	162.7
82.5°	50.9	86.8	107.7	108.4	110.9
85°	29.2	54.2	59.2	58.5	59.2
87.5°	11.7	19.2	16.7	12.5	12.5
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)