

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: P734033

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CP375-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734033
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-CP375-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SQR LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

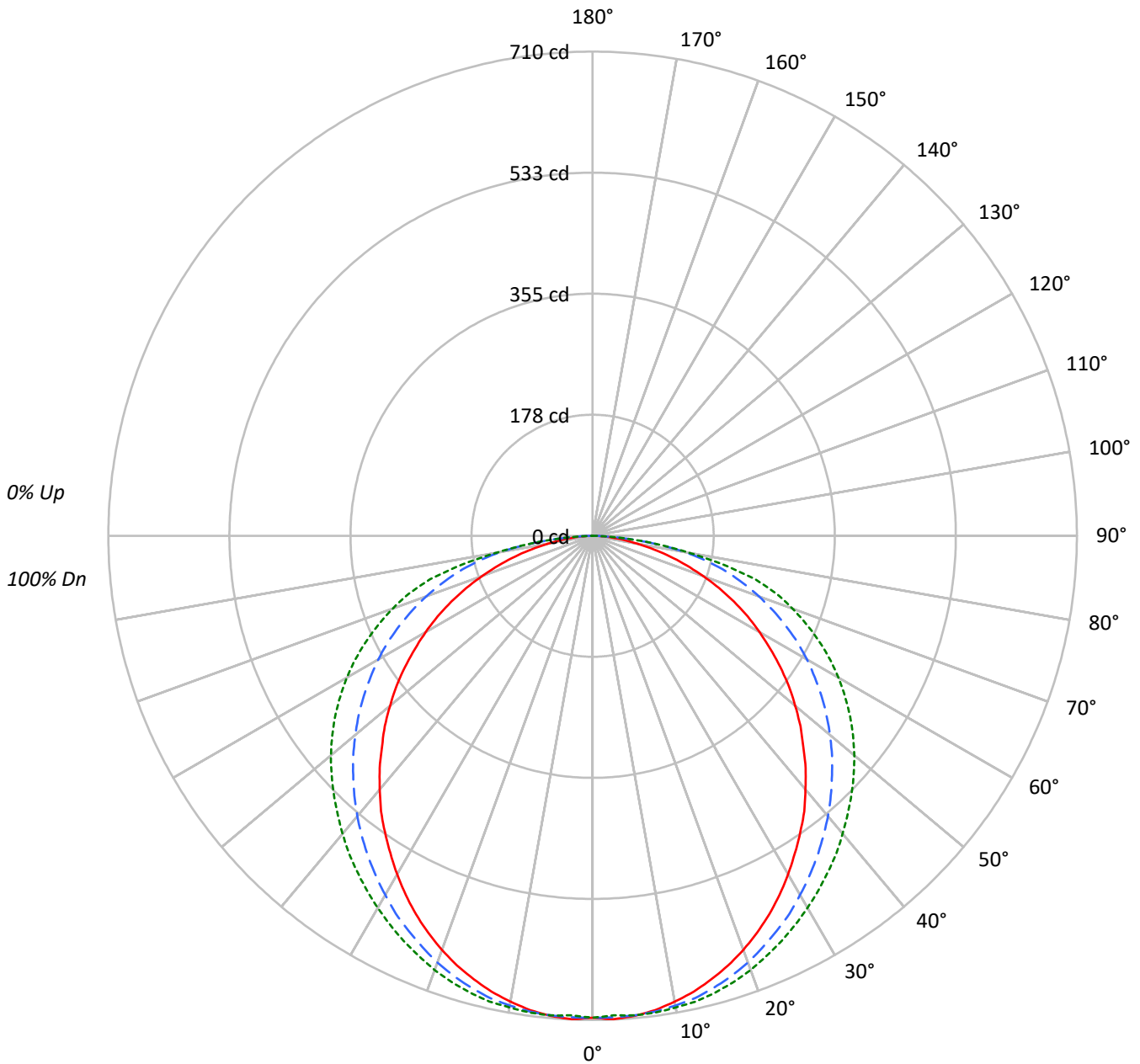
Lumens per Lamp: N/A
Luminaire Lumens: 2211.0 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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°	997	997	997
5°	1001	1000	1000
10°	994	1002	1006
15°	983	1003	1013
20°	971	1000	1018
25°	954	995	1021
30°	934	991	1027
35°	915	989	1037
40°	894	989	1051
45°	871	991	1071
50°	851	997	1100
55°	827	1008	1134
60°	798	1024	1175
65°	763	1044	1224
70°	708	1070	1287
75°	641	1107	1346
80°	540	1109	1157
85°	413	839	839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	3.0
10°-20°	193.0	8.7
20°-30°	293.2	13.3
30°-40°	356.6	16.1
40°-50°	379.7	17.2
50°-60°	361.6	16.4
60°-70°	302.4	13.7
70°-80°	201.6	9.1
80°-90°	55.8	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°	553.3	25.0
0°-40°	909.9	41.2
0°-60°	1651.2	74.7
0°-90°	2211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	707	702	706	706	706	67
15°	673	675	686	691	694	190
25°	613	620	639	650	656	282
35°	531	546	574	593	602	332
45°	437	460	496	524	537	338
55°	336	365	410	445	461	300
65°	228	262	312	351	366	226
75°	118	155	203	237	247	125
85°	26	47	52	51	52	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	706.7	706.7	706.7	706.7	706.7
2.5°	709.6	704.5	706.7	706.7	703.9
5°	706.7	702.3	706.0	706.0	706.0
7.5°	701.7	698.0	703.9	705.3	705.3
10°	693.6	692.2	699.5	701.7	702.3
12.5°	684.9	684.1	694.4	697.2	699.5
15°	673.1	674.6	686.3	691.4	693.6
17.5°	660.8	663.6	676.8	684.1	686.3
20°	646.2	650.5	665.9	673.1	677.6
22.5°	630.1	636.7	652.7	661.4	666.6
25°	612.6	620.5	638.9	649.8	655.7
27.5°	593.6	603.8	625.0	637.3	643.2
30°	573.1	584.8	608.2	622.8	630.1
32.5°	551.9	565.8	591.4	607.5	616.2
35°	530.8	546.2	573.9	592.8	601.6
37.5°	509.6	524.9	555.6	576.0	587.1
40°	485.5	503.7	536.7	559.3	570.3
42.5°	462.2	481.8	516.9	541.7	553.5
45°	436.6	460.0	496.4	524.2	536.7
47.5°	413.2	436.6	476.0	505.3	519.1
50°	387.7	412.5	454.1	486.3	500.9
52.5°	362.8	388.5	432.2	466.6	481.2
55°	335.9	365.0	409.6	445.4	460.7
57.5°	308.9	340.3	386.2	423.5	438.8
60°	282.6	314.6	362.8	400.1	416.2
62.5°	256.3	288.4	338.7	376.7	392.1
65°	228.5	262.1	312.5	351.2	366.5
67.5°	200.8	235.8	286.2	324.9	339.5
70°	171.6	208.8	259.2	297.2	311.8
72.5°	144.6	181.8	231.4	268.7	282.6
75°	117.6	154.8	203.0	237.3	246.8
77.5°	91.3	128.5	171.6	194.2	196.4
80°	66.4	101.5	136.5	143.1	142.3
82.5°	44.5	75.9	94.2	94.9	97.1
85°	25.5	47.4	51.8	51.1	51.8
87.5°	10.2	16.8	14.6	10.9	10.9
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)