

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: P734029

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734029
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-CP250-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SQR LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

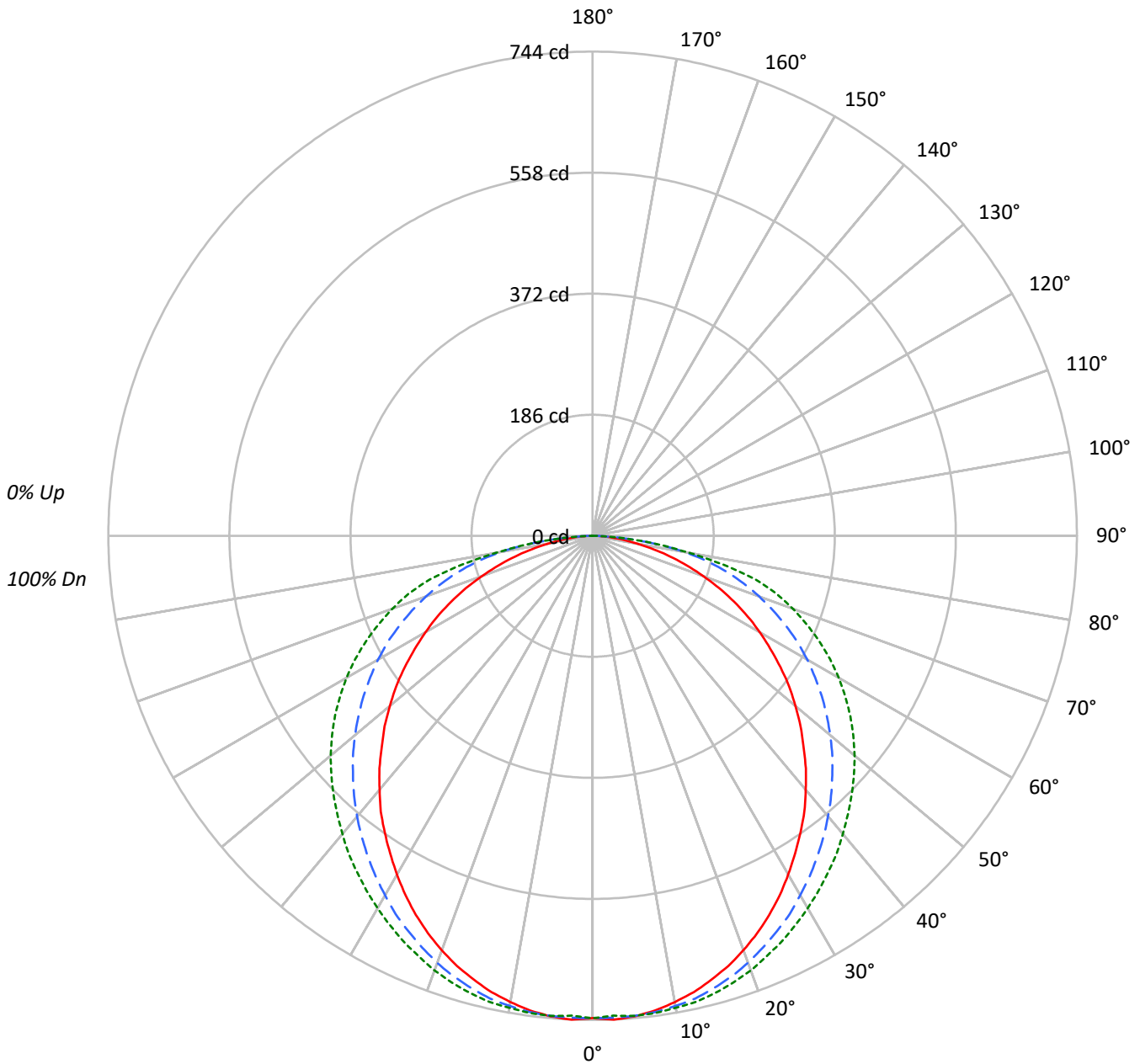
Lumens per Lamp: N/A
Luminaire Lumens: 2319.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1046	1046	1046
5°	1050	1049	1049
10°	1043	1051	1056
15°	1032	1052	1063
20°	1018	1049	1067
25°	1001	1044	1071
30°	980	1040	1077
35°	959	1037	1087
40°	938	1037	1102
45°	914	1039	1124
50°	893	1046	1154
55°	867	1057	1189
60°	837	1074	1232
65°	800	1094	1284
70°	742	1122	1349
75°	672	1161	1412
80°	566	1164	1213
85°	434	879	879



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	3.0
10°-20°	202.4	8.7
20°-30°	307.5	13.3
30°-40°	374.0	16.1
40°-50°	398.2	17.2
50°-60°	379.3	16.4
60°-70°	317.2	13.7
70°-80°	211.5	9.1
80°-90°	58.5	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°	580.3	25.0
0°-40°	954.3	41.2
0°-60°	1731.8	74.7
0°-90°	2319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	741	741	741	741	741	
5°	741	737	740	740	740	70
15°	706	708	720	725	728	199
25°	642	651	670	682	688	296
35°	557	573	602	622	631	348
45°	458	482	521	550	563	354
55°	352	383	430	467	483	315
65°	240	275	328	368	384	237
75°	123	162	213	249	259	131
85°	27	50	54	54	54	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.2	741.2	741.2	741.2	741.2
2.5°	744.3	738.9	741.2	741.2	738.2
5°	741.2	736.6	740.5	740.5	740.5
7.5°	735.9	732.1	738.2	739.7	739.7
10°	727.5	726.0	733.7	735.9	736.6
12.5°	718.3	717.5	728.3	731.3	733.7
15°	706.0	707.6	719.8	725.2	727.5
17.5°	693.1	696.0	709.9	717.5	719.8
20°	677.7	682.3	698.4	706.0	710.7
22.5°	660.9	667.8	684.6	693.8	699.1
25°	642.5	650.9	670.1	681.5	687.7
27.5°	622.6	633.3	655.5	668.5	674.6
30°	601.1	613.3	637.9	653.2	660.9
32.5°	578.9	593.4	620.3	637.1	646.3
35°	556.7	572.8	601.9	621.8	631.0
37.5°	534.5	550.5	582.8	604.2	615.7
40°	509.2	528.4	562.9	586.6	598.1
42.5°	484.8	505.4	542.2	568.2	580.5
45°	457.9	482.5	520.7	549.8	562.9
47.5°	433.4	457.9	499.3	529.9	544.5
50°	406.6	432.6	476.3	510.0	525.4
52.5°	380.6	407.4	453.3	489.3	504.7
55°	352.3	382.9	429.6	467.1	483.2
57.5°	323.9	356.9	405.0	444.2	460.3
60°	296.4	330.0	380.6	419.7	436.5
62.5°	268.8	302.4	355.3	395.1	411.2
65°	239.6	274.9	327.7	368.3	384.4
67.5°	210.6	247.3	300.2	340.8	356.1
70°	179.9	219.0	271.9	311.7	327.0
72.5°	151.7	190.7	242.7	281.8	296.4
75°	123.3	162.3	212.9	248.9	258.9
77.5°	95.7	134.7	179.9	203.7	206.0
80°	69.7	106.5	143.2	150.1	149.3
82.5°	46.7	79.6	98.8	99.5	101.8
85°	26.8	49.8	54.3	53.6	54.3
87.5°	10.7	17.6	15.3	11.4	11.4
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)