

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: P734025

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734025  
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-CP187-5000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND SQR LENS, WITH, CP187 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

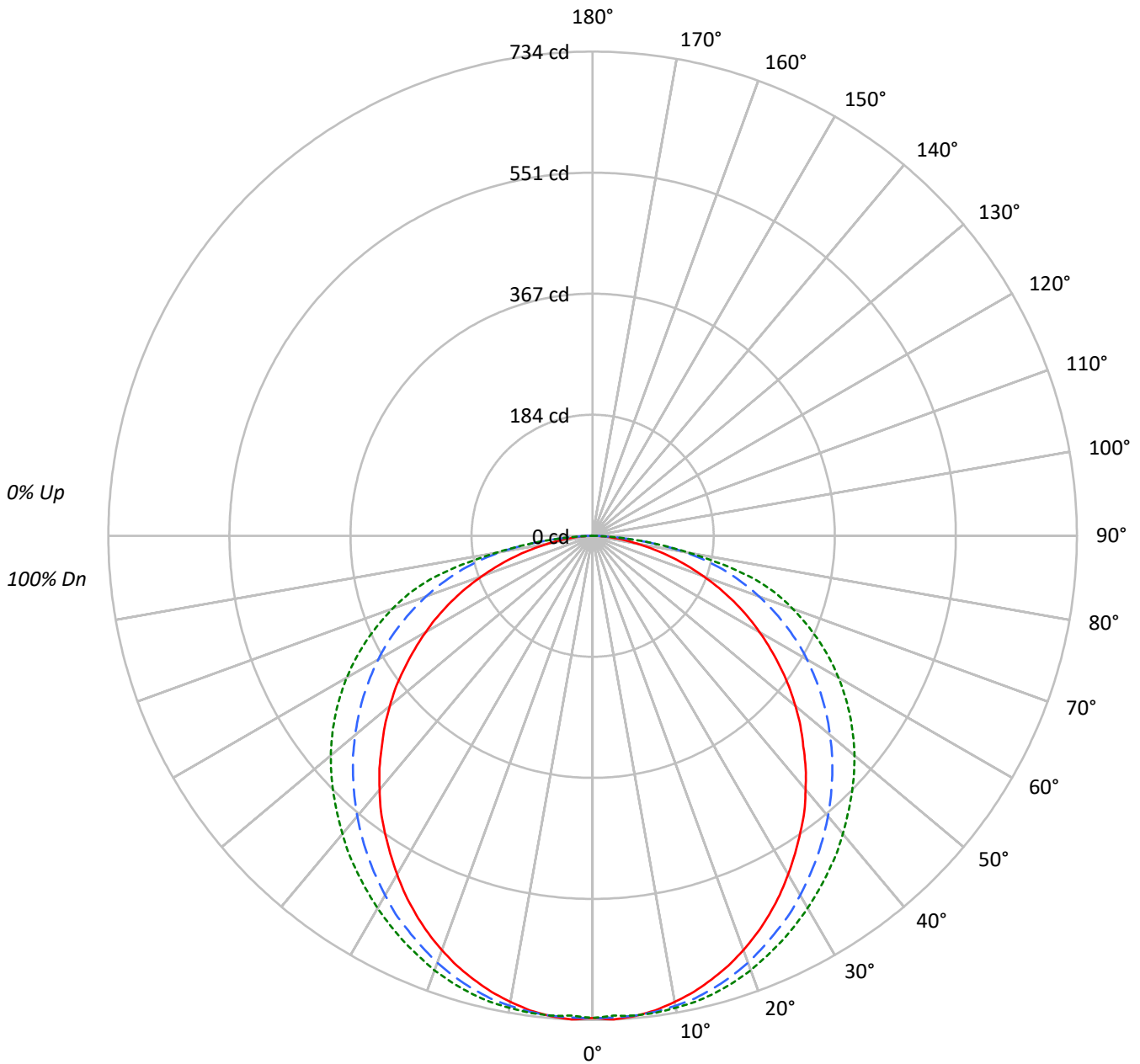
Lumens per Lamp: N/A  
Luminaire Lumens: 2287.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1032	1032	1032
5°	1036	1035	1035
10°	1028	1037	1041
15°	1017	1037	1048
20°	1004	1035	1053
25°	987	1029	1056
30°	966	1025	1062
35°	946	1023	1072
40°	925	1023	1087
45°	901	1025	1108
50°	880	1031	1138
55°	855	1043	1172
60°	825	1059	1215
65°	789	1079	1266
70°	732	1106	1331
75°	663	1145	1392
80°	558	1148	1196
85°	428	868	868



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.4	3.0
10°-20°	199.7	8.7
20°-30°	303.3	13.3
30°-40°	368.9	16.1
40°-50°	392.7	17.2
50°-60°	374.1	16.4
60°-70°	312.8	13.7
70°-80°	208.6	9.1
80°-90°	57.7	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°	572.3	25.0
0°-40°	941.2	41.2
0°-60°	1707.9	74.7
0°-90°	2287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2287.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	731	731	731	731	731	
5°	731	726	730	730	730	69
15°	696	698	710	715	718	196
25°	634	642	661	672	678	292
35°	549	565	594	613	622	344
45°	452	476	514	542	555	349
55°	347	378	424	461	476	311
65°	236	271	323	363	379	234
75°	122	160	210	246	255	129
85°	26	49	54	53	54	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	731.0	731.0	731.0	731.0	731.0
2.5°	734.0	728.7	731.0	731.0	728.1
5°	731.0	726.5	730.3	730.3	730.3
7.5°	725.8	722.0	728.1	729.5	729.5
10°	717.5	716.0	723.5	725.8	726.5
12.5°	708.4	707.6	718.2	721.2	723.5
15°	696.3	697.8	709.9	715.2	717.5
17.5°	683.5	686.4	700.1	707.6	709.9
20°	668.4	672.9	688.8	696.3	700.9
22.5°	651.8	658.6	675.2	684.2	689.5
25°	633.6	641.9	660.8	672.1	678.2
27.5°	614.0	624.6	646.5	659.3	665.3
30°	592.8	604.9	629.1	644.2	651.8
32.5°	570.9	585.2	611.7	628.3	637.4
35°	549.0	564.9	593.6	613.2	622.2
37.5°	527.1	542.9	574.7	595.8	607.2
40°	502.2	521.1	555.1	578.5	589.9
42.5°	478.1	498.4	534.7	560.3	572.5
45°	451.6	475.8	513.5	542.3	555.1
47.5°	427.4	451.6	492.4	522.6	537.0
50°	401.0	426.6	469.7	503.0	518.1
52.5°	375.3	401.8	447.1	482.6	497.7
55°	347.4	377.6	423.7	460.7	476.5
57.5°	319.5	352.0	399.5	438.0	453.9
60°	292.3	325.5	375.3	413.9	430.5
62.5°	265.1	298.3	350.4	389.6	405.5
65°	236.3	271.1	323.2	363.2	379.1
67.5°	207.7	243.9	296.0	336.1	351.2
70°	177.4	216.0	268.1	307.4	322.5
72.5°	149.6	188.0	239.4	278.0	292.3
75°	121.6	160.1	209.9	245.5	255.3
77.5°	94.4	132.9	177.4	200.9	203.2
80°	68.7	105.0	141.2	148.0	147.2
82.5°	46.0	78.5	97.5	98.1	100.4
85°	26.4	49.1	53.6	52.9	53.6
87.5°	10.6	17.4	15.1	11.3	11.3
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)