

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: P734024

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734024  
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-CP187-4000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND SQR LENS, WITH, CP187 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

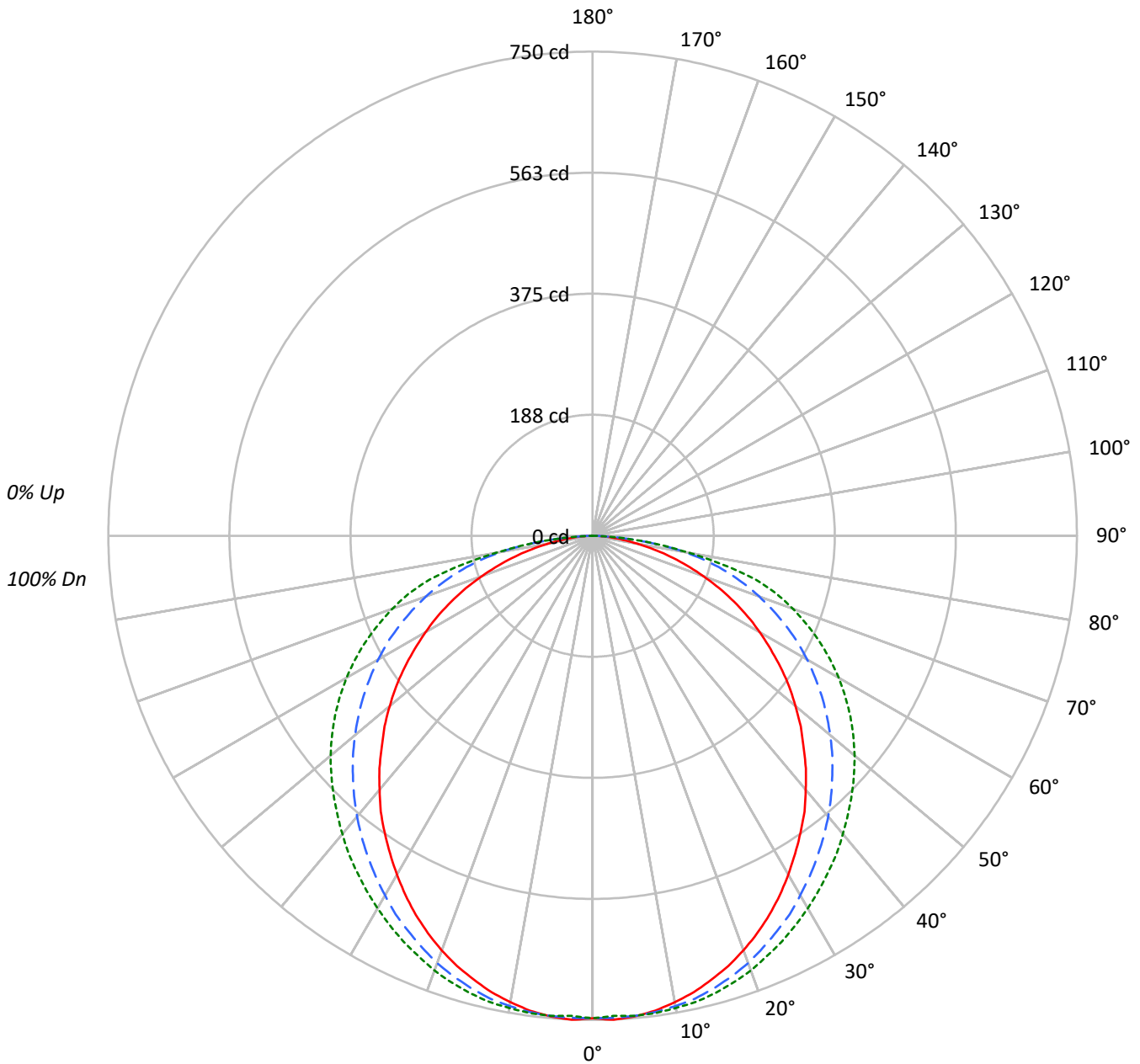
Lumens per Lamp: N/A  
Luminaire Lumens: 2338.0 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1055	1055	1055
5°	1059	1058	1058
10°	1051	1060	1064
15°	1040	1060	1072
20°	1026	1058	1076
25°	1009	1052	1080
30°	988	1048	1086
35°	967	1045	1096
40°	946	1046	1111
45°	921	1048	1133
50°	900	1054	1163
55°	874	1066	1199
60°	843	1083	1242
65°	807	1103	1294
70°	749	1131	1361
75°	678	1170	1423
80°	571	1174	1223
85°	437	887	887



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.9	3.0
10°-20°	204.1	8.7
20°-30°	310.0	13.3
30°-40°	377.1	16.1
40°-50°	401.5	17.2
50°-60°	382.4	16.4
60°-70°	319.8	13.7
70°-80°	213.2	9.1
80°-90°	59.0	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°	585.1	25.0
0°-40°	962.2	41.2
0°-60°	1746.0	74.7
0°-90°	2338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2338.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	747	743	747	747	747	71
15°	712	713	726	731	734	201
25°	648	656	676	687	693	298
35°	561	578	607	627	636	351
45°	462	486	525	554	568	357
55°	355	386	433	471	487	318
65°	242	277	330	371	388	239
75°	124	164	215	251	261	132
85°	27	50	55	54	55	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	747.3	747.3	747.3	747.3	747.3
2.5°	750.4	745.0	747.3	747.3	744.3
5°	747.3	742.7	746.6	746.6	746.6
7.5°	742.0	738.1	744.3	745.8	745.8
10°	733.5	731.9	739.7	742.0	742.7
12.5°	724.2	723.4	734.3	737.3	739.7
15°	711.8	713.4	725.7	731.1	733.5
17.5°	698.7	701.7	715.7	723.4	725.7
20°	683.3	687.9	704.2	711.8	716.5
22.5°	666.3	673.3	690.2	699.4	704.9
25°	647.8	656.2	675.6	687.1	693.3
27.5°	627.7	638.5	660.9	674.0	680.2
30°	606.0	618.4	643.1	658.6	666.3
32.5°	583.7	598.3	625.4	642.3	651.6
35°	561.3	577.5	606.8	626.9	636.1
37.5°	538.9	555.1	587.6	609.1	620.8
40°	513.4	532.7	567.5	591.4	603.0
42.5°	488.7	509.5	546.6	572.8	585.3
45°	461.6	486.4	525.0	554.4	567.5
47.5°	437.0	461.6	503.4	534.3	548.9
50°	410.0	436.2	480.2	514.2	529.7
52.5°	383.7	410.8	457.0	493.3	508.8
55°	355.2	386.0	433.1	471.0	487.1
57.5°	326.6	359.8	408.4	447.8	464.1
60°	298.8	332.7	383.7	423.1	440.1
62.5°	271.0	304.9	358.2	398.3	414.6
65°	241.6	277.1	330.4	371.3	387.6
67.5°	212.3	249.3	302.6	343.5	359.0
70°	181.4	220.8	274.1	314.3	329.7
72.5°	152.9	192.2	244.7	284.1	298.8
75°	124.3	163.6	214.6	250.9	261.0
77.5°	96.5	135.9	181.4	205.4	207.7
80°	70.2	107.4	144.4	151.3	150.5
82.5°	47.1	80.3	99.6	100.3	102.6
85°	27.0	50.2	54.8	54.1	54.8
87.5°	10.8	17.8	15.5	11.5	11.5
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)