

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: P734032

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CP375-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734032  
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-CP375-3000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND SQR LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

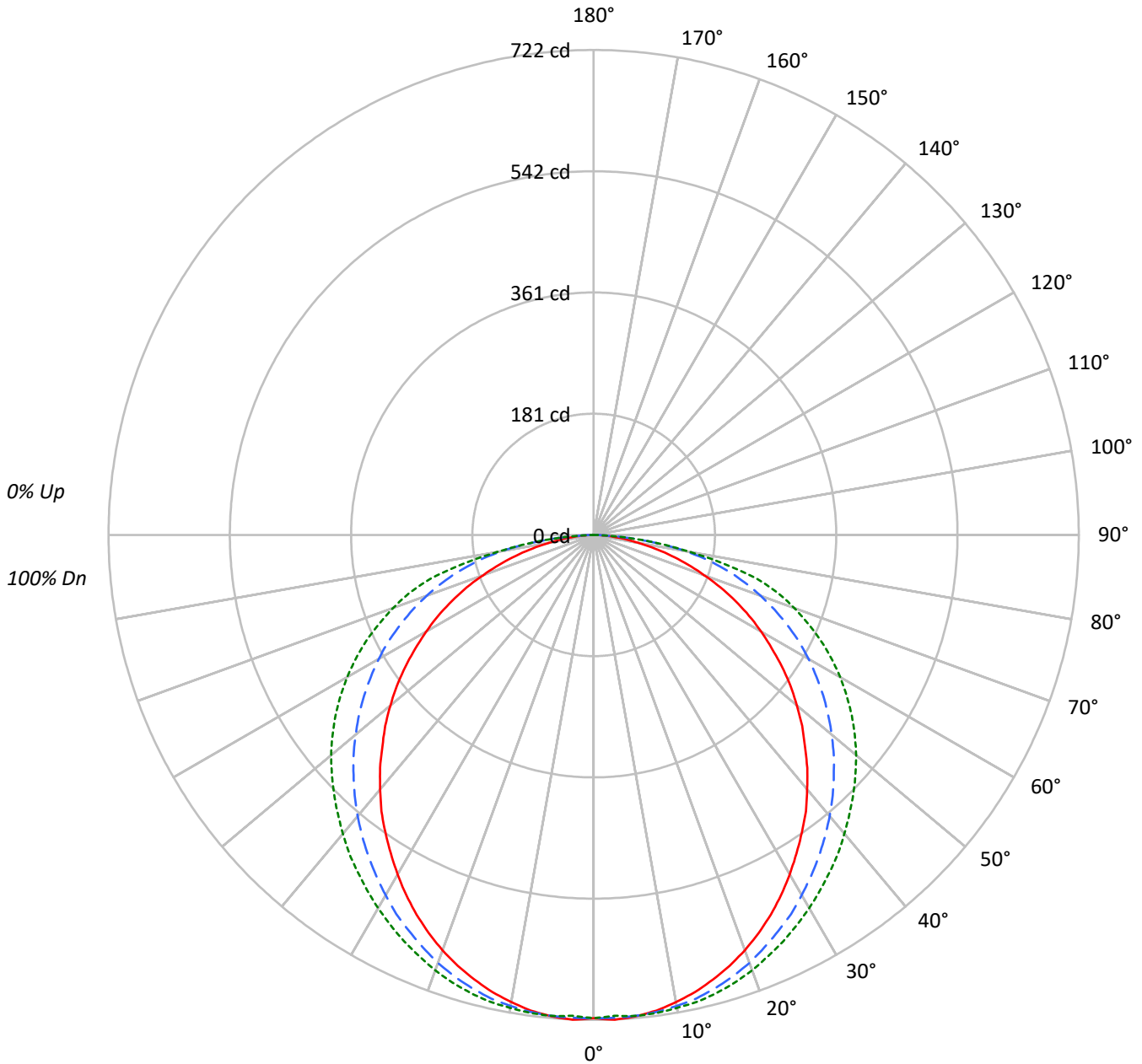
Lumens per Lamp: N/A  
Luminaire Lumens: 2251.0 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
Input Voltage (V): NR  
Input Current (A<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

TEST NUMBER: P734032

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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°	1015	1015	1015
5°	1019	1018	1018
10°	1012	1021	1025
15°	1001	1021	1032
20°	988	1018	1036
25°	971	1013	1039
30°	951	1009	1045
35°	931	1007	1055
40°	911	1007	1070
45°	887	1009	1091
50°	867	1015	1120
55°	842	1026	1154
60°	812	1043	1196
65°	777	1062	1246
70°	721	1089	1310
75°	653	1127	1370
80°	549	1130	1178
85°	421	853	853



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.3	3.0
10°-20°	196.5	8.7
20°-30°	298.5	13.3
30°-40°	363.1	16.1
40°-50°	386.5	17.2
50°-60°	368.2	16.4
60°-70°	307.9	13.7
70°-80°	205.3	9.1
80°-90°	56.8	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°	563.3	25.0
0°-40°	926.3	41.2
0°-60°	1681.0	74.7
0°-90°	2251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2251.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	720	720	720	720	720	
5°	720	715	719	719	719	68
15°	685	687	699	704	706	193
25°	624	632	650	662	668	287
35°	540	556	584	604	612	338
45°	444	468	505	534	546	344
55°	342	372	417	453	469	306
65°	233	267	318	358	373	230
75°	120	158	207	242	251	127
85°	26	48	53	52	53	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	719.5	719.5	719.5	719.5	719.5
2.5°	722.5	717.3	719.5	719.5	716.6
5°	719.5	715.0	718.8	718.8	718.8
7.5°	714.4	710.6	716.6	718.0	718.0
10°	706.2	704.7	712.1	714.4	715.0
12.5°	697.3	696.5	706.9	709.8	712.1
15°	685.3	686.8	698.7	703.9	706.2
17.5°	672.7	675.6	689.1	696.5	698.7
20°	657.9	662.3	678.0	685.3	689.8
22.5°	641.5	648.2	664.5	673.4	678.6
25°	623.7	631.8	650.4	661.5	667.5
27.5°	604.3	614.8	636.3	648.9	654.9
30°	583.5	595.4	619.2	634.1	641.5
32.5°	561.9	576.0	602.1	618.4	627.3
35°	540.4	556.0	584.2	603.6	612.5
37.5°	518.8	534.4	565.7	586.5	597.7
40°	494.3	512.9	546.4	569.4	580.6
42.5°	470.5	490.5	526.3	551.5	563.5
45°	444.5	468.3	505.4	533.7	546.4
47.5°	420.7	444.5	484.7	514.4	528.5
50°	394.7	419.9	462.3	495.1	510.0
52.5°	369.4	395.5	440.0	475.0	489.9
55°	342.0	371.6	417.0	453.4	469.0
57.5°	314.4	346.4	393.2	431.1	446.8
60°	287.7	320.3	369.4	407.4	423.7
62.5°	260.9	293.6	344.9	383.5	399.2
65°	232.6	266.8	318.1	357.5	373.2
67.5°	204.4	240.1	291.4	330.8	345.6
70°	174.7	212.6	263.9	302.6	317.4
72.5°	147.2	185.1	235.6	273.6	287.7
75°	119.7	157.6	206.6	241.6	251.3
77.5°	92.9	130.8	174.7	197.7	200.0
80°	67.6	103.4	139.0	145.7	144.9
82.5°	45.3	77.3	95.9	96.6	98.8
85°	26.0	48.3	52.7	52.1	52.7
87.5°	10.4	17.1	14.9	11.1	11.1
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)