

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: P734160

Luminaire Tested: **24FCZ2-30HE-SQR-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734160  
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: 24FCZ2-30HE-SQR-B2750-W2D-CP375-5000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND SQR LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

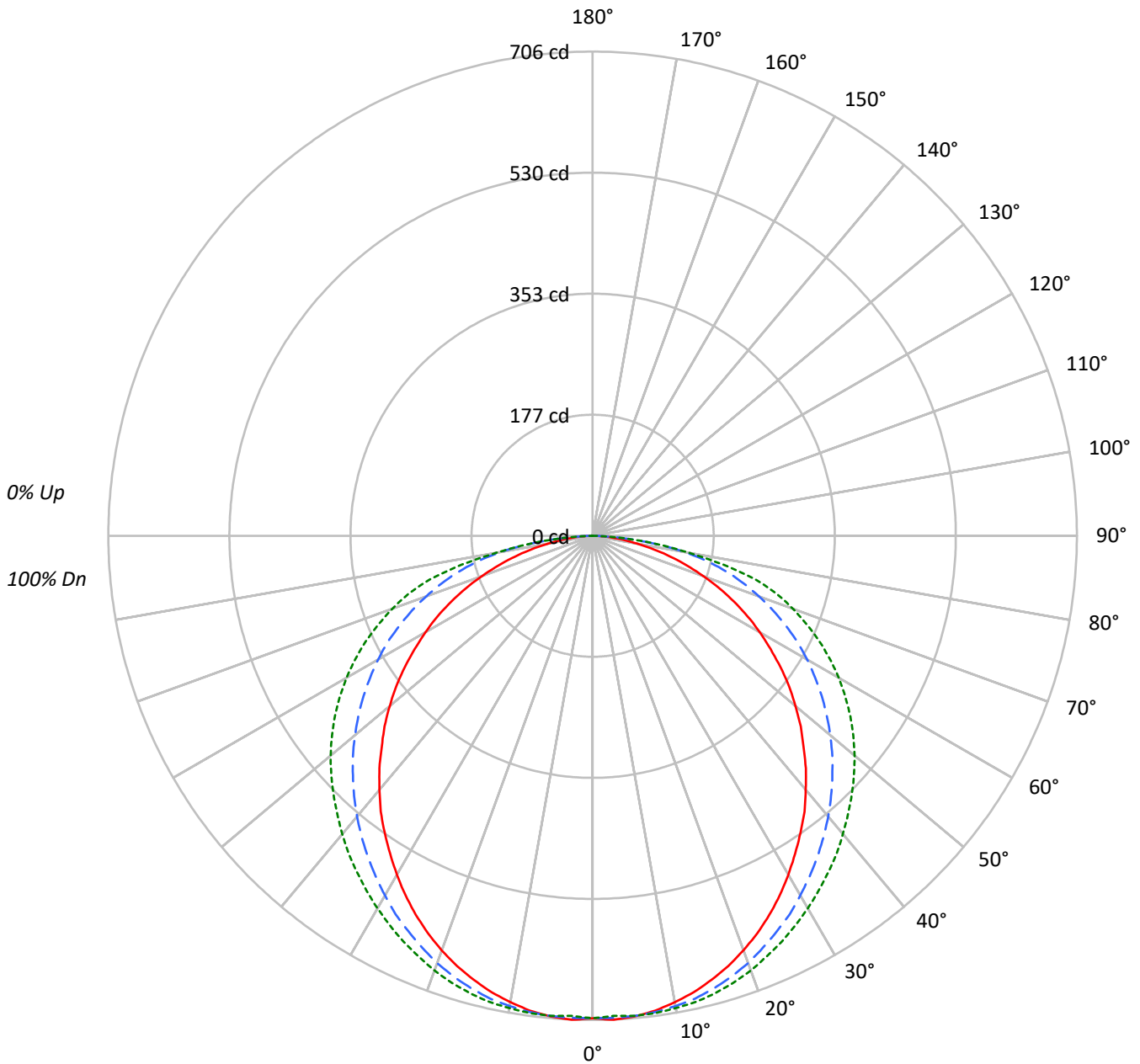
Lumens per Lamp: N/A  
Luminaire Lumens: 2201.0 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 22  
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°	993	993	993
5°	997	996	996
10°	990	998	1002
15°	979	998	1009
20°	966	996	1013
25°	950	990	1016
30°	930	987	1022
35°	910	984	1032
40°	890	984	1046
45°	867	986	1066
50°	847	993	1095
55°	823	1003	1128
60°	794	1020	1169
65°	759	1039	1219
70°	705	1065	1281
75°	638	1102	1340
80°	537	1105	1152
85°	411	836	836



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.8	3.0
10°-20°	192.1	8.7
20°-30°	291.9	13.3
30°-40°	355.0	16.1
40°-50°	378.0	17.2
50°-60°	360.0	16.4
60°-70°	301.0	13.7
70°-80°	200.7	9.1
80°-90°	55.5	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°	550.8	25.0
0°-40°	905.8	41.2
0°-60°	1643.7	74.7
0°-90°	2201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2201.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	704	699	703	703	703	67
15°	670	672	683	688	690	189
25°	610	618	636	647	653	281
35°	528	544	571	590	599	331
45°	435	458	494	522	534	336
55°	334	363	408	443	459	299
65°	227	261	311	350	365	225
75°	117	154	202	236	246	124
85°	25	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°	703.5	703.5	703.5	703.5	703.5
2.5°	706.4	701.3	703.5	703.5	700.7
5°	703.5	699.2	702.8	702.8	702.8
7.5°	698.5	694.8	700.7	702.1	702.1
10°	690.5	689.1	696.3	698.5	699.2
12.5°	681.8	681.0	691.2	694.1	696.3
15°	670.1	671.6	683.2	688.3	690.5
17.5°	657.8	660.6	673.8	681.0	683.2
20°	643.2	647.6	662.9	670.1	674.5
22.5°	627.3	633.8	649.8	658.5	663.6
25°	609.8	617.7	636.0	646.8	652.7
27.5°	590.9	601.1	622.2	634.5	640.3
30°	570.5	582.1	605.5	620.0	627.3
32.5°	549.5	563.2	588.7	604.7	613.4
35°	528.4	543.7	571.3	590.2	598.9
37.5°	507.3	522.5	553.1	573.4	584.4
40°	483.3	501.5	534.2	556.7	567.7
42.5°	460.1	479.6	514.6	539.2	551.0
45°	434.6	457.9	494.2	521.9	534.2
47.5°	411.4	434.6	473.9	503.0	516.8
50°	385.9	410.6	452.1	484.1	498.6
52.5°	361.2	386.7	430.2	464.4	479.0
55°	334.4	363.4	407.8	443.4	458.6
57.5°	307.5	338.7	384.4	421.6	436.9
60°	281.3	313.2	361.2	398.3	414.3
62.5°	255.1	287.1	337.2	375.0	390.3
65°	227.4	260.9	311.0	349.6	364.9
67.5°	199.9	234.7	284.9	323.4	338.0
70°	170.8	207.9	258.1	295.8	310.4
72.5°	144.0	181.0	230.4	267.5	281.3
75°	117.0	154.1	202.0	236.2	245.7
77.5°	90.9	127.9	170.8	193.4	195.5
80°	66.1	101.1	135.9	142.4	141.7
82.5°	44.3	75.6	93.8	94.5	96.6
85°	25.4	47.2	51.6	50.9	51.6
87.5°	10.2	16.7	14.5	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)