

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: P734034

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734034  
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-CP375-4000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND SQR LENS, WITH, CP375 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

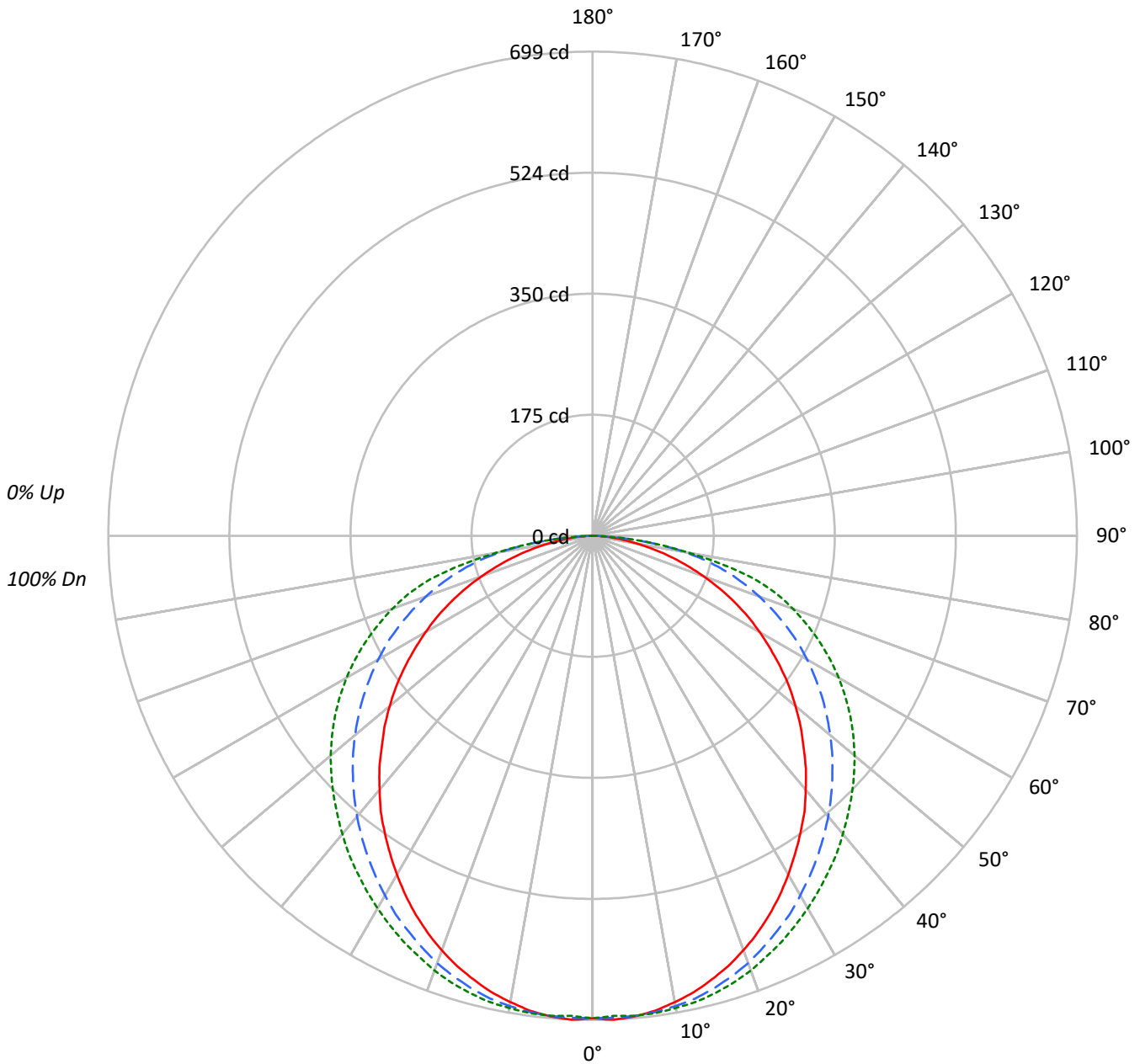
Lumens per Lamp: N/A  
Luminaire Lumens: 2179.0 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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									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	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°	983	983	983
5°	987	986	986
10°	980	988	992
15°	969	988	999
20°	956	986	1003
25°	940	980	1006
30°	920	977	1012
35°	901	974	1022
40°	882	974	1035
45°	859	977	1056
50°	839	983	1084
55°	814	993	1117
60°	786	1009	1158
65°	752	1028	1206
70°	698	1054	1268
75°	632	1091	1326
80°	532	1094	1140
85°	408	827	827



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.1	3.0
10°-20°	190.2	8.7
20°-30°	288.9	13.3
30°-40°	351.5	16.1
40°-50°	374.2	17.2
50°-60°	356.4	16.4
60°-70°	298.0	13.7
70°-80°	198.7	9.1
80°-90°	55.0	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°	545.3	25.0
0°-40°	896.7	41.2
0°-60°	1627.3	74.7
0°-90°	2179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2179.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	696	692	696	696	696	66
15°	663	665	676	681	684	187
25°	604	612	630	640	646	278
35°	523	538	566	584	593	327
45°	430	453	489	517	529	333
55°	331	360	404	439	454	296
65°	225	258	308	346	361	223
75°	116	152	200	234	243	123
85°	25	47	51	50	51	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	696.5	696.5	696.5	696.5	696.5
2.5°	699.4	694.3	696.5	696.5	693.7
5°	696.5	692.2	695.8	695.8	695.8
7.5°	691.5	687.9	693.7	695.1	695.1
10°	683.6	682.2	689.4	691.5	692.2
12.5°	675.0	674.2	684.3	687.1	689.4
15°	663.4	664.9	676.4	681.4	683.6
17.5°	651.2	654.0	667.0	674.2	676.4
20°	636.8	641.1	656.3	663.4	667.8
22.5°	621.0	627.5	643.3	651.9	656.9
25°	603.7	611.6	629.6	640.4	646.2
27.5°	585.0	595.1	616.0	628.1	633.9
30°	564.8	576.3	599.4	613.8	621.0
32.5°	544.0	557.6	582.9	598.7	607.3
35°	523.1	538.3	565.6	584.3	592.9
37.5°	502.3	517.3	547.6	567.7	578.6
40°	478.5	496.5	528.9	551.2	562.0
42.5°	455.5	474.9	509.5	533.9	545.5
45°	430.2	453.3	489.3	516.7	528.9
47.5°	407.2	430.2	469.1	498.0	511.6
50°	382.1	406.5	447.5	479.2	493.6
52.5°	357.6	382.8	425.9	459.8	474.2
55°	331.0	359.7	403.7	438.9	454.0
57.5°	304.4	335.3	380.6	417.3	432.5
60°	278.5	310.1	357.6	394.3	410.1
62.5°	252.6	284.2	333.8	371.2	386.4
65°	225.2	258.3	307.9	346.1	361.2
67.5°	197.9	232.4	282.0	320.2	334.6
70°	169.1	205.8	255.5	292.9	307.3
72.5°	142.5	179.2	228.1	264.8	278.5
75°	115.9	152.5	200.0	233.9	243.2
77.5°	90.0	126.6	169.1	191.4	193.6
80°	65.5	100.1	134.6	141.0	140.3
82.5°	43.9	74.8	92.9	93.5	95.7
85°	25.2	46.8	51.1	50.4	51.1
87.5°	10.1	16.6	14.4	10.8	10.8
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)