

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: P733934

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272053)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30-B2750-W2D-CP375-4000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND RIBBED LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

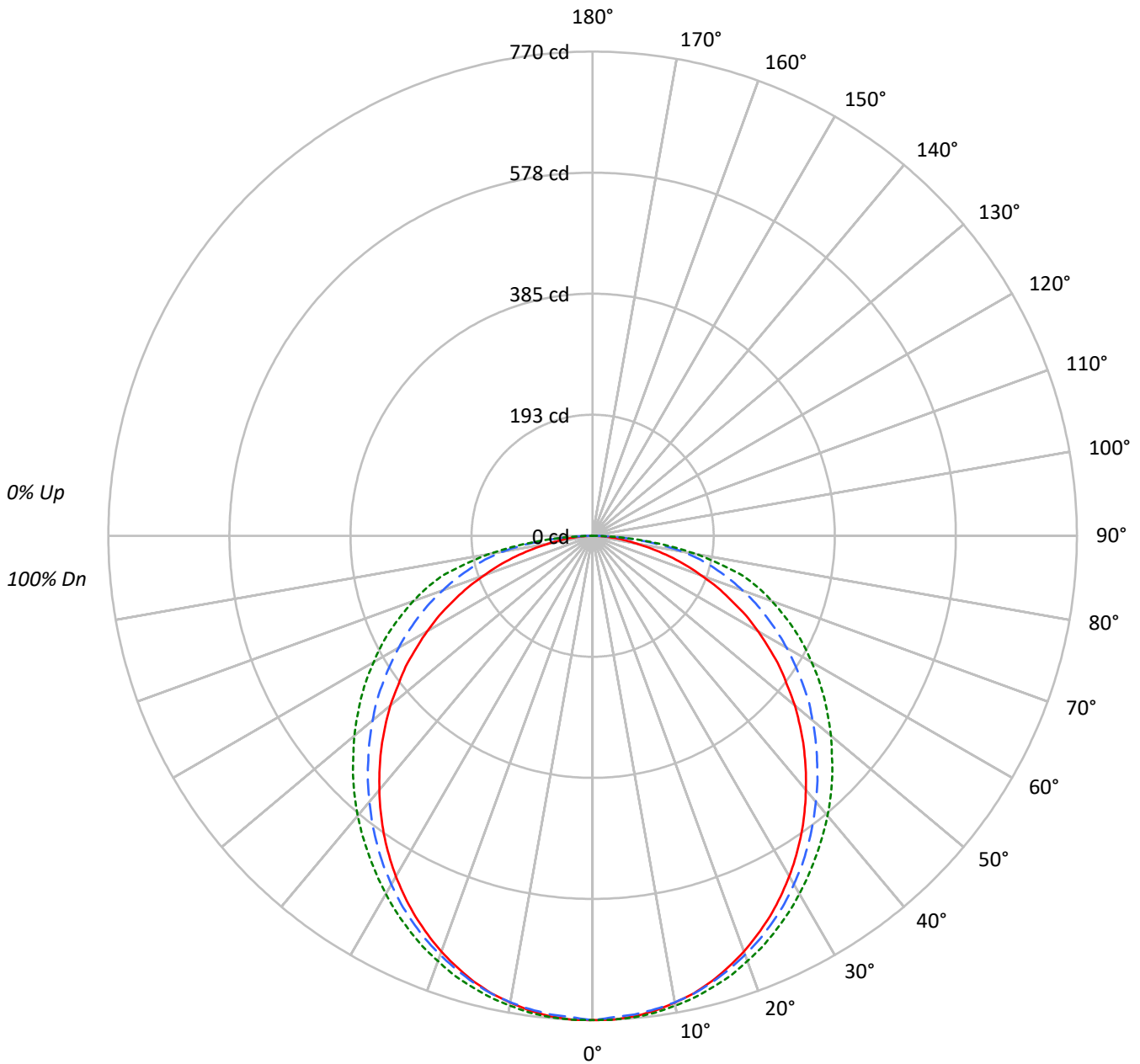
Lumens per Lamp: N/A  
Luminaire Lumens: 2294.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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				70				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	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41			
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1087	1087	1087
5°	1087	1083	1089
10°	1081	1080	1087
15°	1072	1074	1085
20°	1057	1065	1081
25°	1040	1055	1077
30°	1019	1043	1072
35°	997	1030	1068
40°	972	1017	1071
45°	947	1007	1076
50°	921	1002	1086
55°	893	1000	1106
60°	858	1005	1135
65°	813	1020	1184
70°	755	1046	1251
75°	689	1098	1357
80°	566	1182	1356
85°	434	1091	1166



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.8	3.2
10°-20°	208.0	9.1
20°-30°	313.0	13.6
30°-40°	375.0	16.3
40°-50°	390.8	17.0
50°-60°	363.6	15.9
60°-70°	299.5	13.1
70°-80°	203.9	8.9
80°-90°	67.3	2.9
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°	593.8	25.9
0°-40°	968.8	42.2
0°-60°	1723.2	75.1
0°-90°	2294.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2294.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	770	770	770	770	770	
5°	767	767	764	768	769	73
15°	733	734	735	742	743	207
25°	668	671	678	689	691	307
35°	579	586	598	614	620	362
45°	475	485	505	530	539	366
55°	363	375	407	439	449	323
65°	243	264	305	341	354	242
75°	126	155	201	237	249	133
85°	27	52	67	72	72	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	770.2	770.2	770.2	770.2	770.2
2.5°	770.2	770.2	766.4	770.2	770.2
5°	767.1	767.1	764.1	767.9	768.7
7.5°	761.7	762.6	759.5	764.1	764.9
10°	754.1	754.9	753.4	758.0	758.7
12.5°	745.0	745.7	745.7	751.0	751.9
15°	733.4	734.2	735.0	741.9	742.6
17.5°	718.9	721.2	722.7	731.2	732.7
20°	703.6	705.9	709.0	718.1	719.7
22.5°	686.0	689.0	694.4	704.4	706.7
25°	667.6	670.7	677.6	689.0	691.3
27.5°	647.0	651.6	660.0	672.2	675.3
30°	625.5	630.1	640.0	653.0	657.7
32.5°	602.6	608.7	620.1	634.7	639.3
35°	578.8	585.7	598.0	614.0	620.1
37.5°	553.6	561.2	575.7	593.3	601.0
40°	527.5	536.7	552.0	572.7	581.1
42.5°	501.4	509.9	529.0	551.3	560.4
45°	474.7	484.6	504.6	529.8	539.0
47.5°	447.1	457.0	480.8	507.6	516.0
50°	419.6	429.6	456.3	484.6	494.6
52.5°	389.7	402.7	433.3	461.7	471.6
55°	362.9	375.1	406.6	438.7	449.4
57.5°	332.3	346.8	381.3	415.0	426.4
60°	304.0	319.3	356.0	390.4	402.0
62.5°	274.9	291.7	330.7	366.0	379.0
65°	243.4	264.1	305.4	341.4	354.4
67.5°	215.1	236.6	280.2	317.0	328.4
70°	183.0	209.0	253.4	290.2	303.2
72.5°	155.4	181.4	228.1	264.1	277.1
75°	126.3	154.7	201.3	237.3	248.8
77.5°	97.3	128.6	175.3	202.9	206.7
80°	69.7	102.6	145.4	161.6	166.9
82.5°	49.0	78.9	107.2	117.9	121.0
85°	26.8	52.0	67.4	72.0	72.0
87.5°	11.4	22.2	26.8	27.6	28.3
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)