

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: P734010

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734010  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30-S-B2750-W2D-CP375-5000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND SMOOTH LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

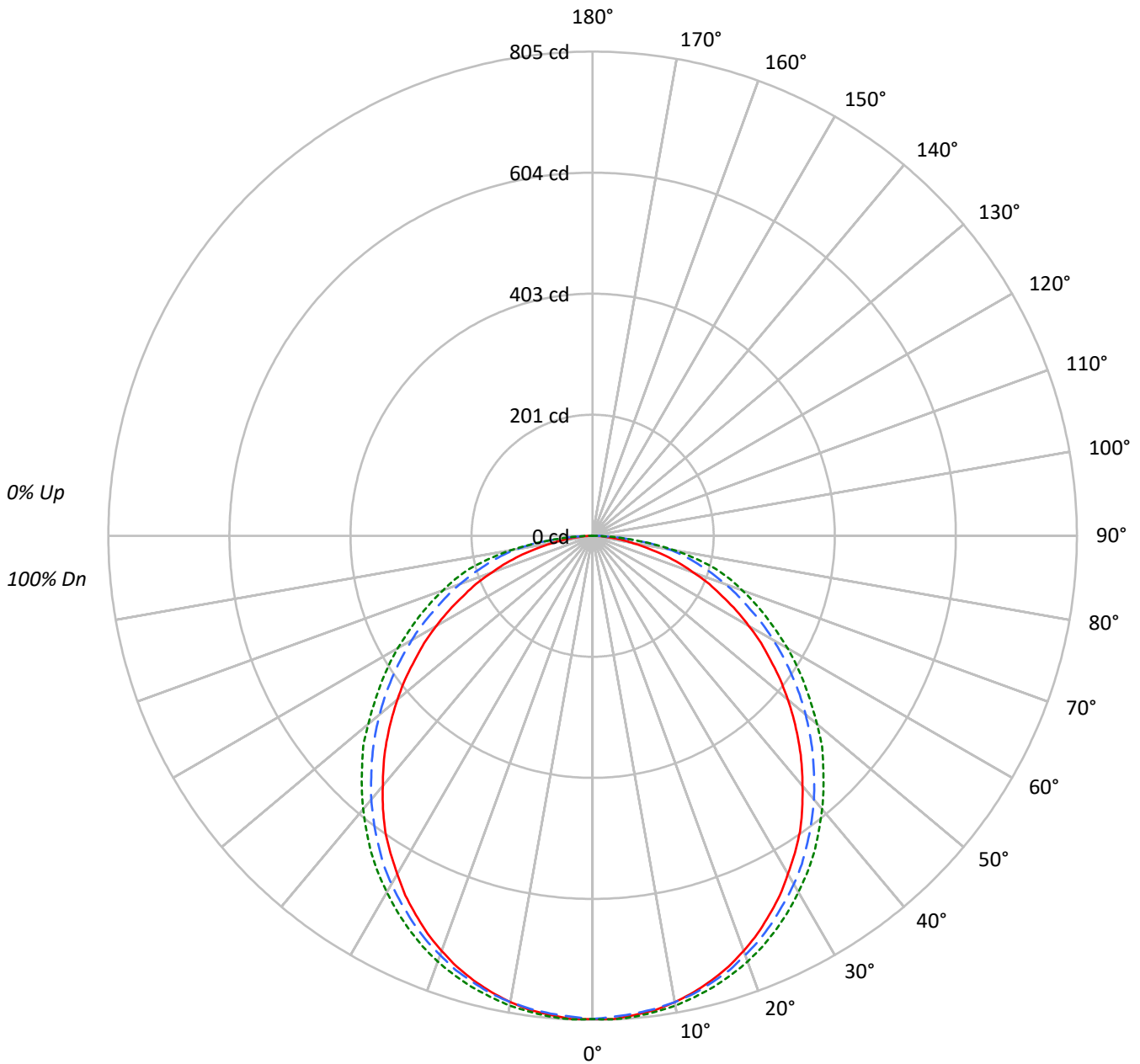
Lumens per Lamp: N/A  
Luminaire Lumens: 2287.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

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

	0°	45°	90°
0°	1134	1134	1134
5°	1133	1130	1137
10°	1129	1129	1137
15°	1118	1123	1135
20°	1103	1114	1131
25°	1083	1103	1124
30°	1058	1090	1115
35°	1035	1073	1106
40°	1000	1055	1093
45°	967	1034	1082
50°	930	1014	1069
55°	888	996	1058
60°	847	980	1056
65°	793	963	1063
70°	734	968	1091
75°	658	986	1153
80°	532	1045	1127
85°	400	917	894



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.1	3.3
10°-20°	217.3	9.5
20°-30°	326.7	14.3
30°-40°	389.2	17.0
40°-50°	398.3	17.4
50°-60°	358.6	15.7
60°-70°	281.6	12.3
70°-80°	182.8	8.0
80°-90°	56.5	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°	620.1	27.1
0°-40°	1009.3	44.1
0°-60°	1766.1	77.2
0°-90°	2287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2287.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	800	801	798	802	803	76
15°	765	767	769	775	777	216
25°	695	701	708	720	722	320
35°	601	608	623	638	642	375
45°	484	496	518	538	542	374
55°	361	377	405	426	430	324
65°	238	256	288	312	318	236
75°	121	144	181	206	211	128
85°	25	46	57	55	55	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	803.5	803.5	803.5	803.5	803.5
2.5°	804.2	804.2	800.5	804.2	804.9
5°	799.8	801.3	797.6	802.0	802.7
7.5°	795.4	795.4	793.2	797.6	798.4
10°	787.5	788.2	787.5	792.5	793.2
12.5°	777.3	778.7	779.5	784.6	785.3
15°	765.0	767.2	768.6	775.1	776.6
17.5°	751.1	753.3	756.9	764.2	765.7
20°	734.4	737.3	741.7	751.1	753.3
22.5°	716.3	719.2	726.5	735.1	738.8
25°	695.2	701.0	708.2	719.9	722.1
27.5°	674.1	679.2	688.6	701.0	704.0
30°	649.4	657.4	669.0	681.4	684.3
32.5°	625.5	633.4	647.2	660.4	664.0
35°	600.8	608.0	622.6	637.8	642.2
37.5°	572.4	581.9	597.9	613.1	617.5
40°	542.7	554.3	572.4	588.4	593.5
42.5°	514.3	526.6	544.8	562.3	568.0
45°	484.5	496.2	518.0	537.6	542.0
47.5°	454.0	467.1	490.3	509.9	517.2
50°	423.5	437.4	462.0	482.3	486.7
52.5°	393.0	407.5	433.7	455.5	457.7
55°	361.0	377.1	404.6	425.7	430.1
57.5°	332.0	345.8	375.6	397.4	402.4
60°	300.0	315.3	347.2	367.6	374.1
62.5°	269.5	285.5	318.9	339.2	345.0
65°	237.5	255.7	288.4	312.4	318.2
67.5°	210.0	227.4	262.2	285.5	291.3
70°	177.9	197.6	234.7	258.6	264.4
72.5°	150.4	170.7	207.8	231.0	239.7
75°	120.6	143.8	180.9	205.6	211.4
77.5°	91.6	118.4	156.1	175.0	175.0
80°	65.4	93.7	128.6	137.3	138.7
82.5°	42.9	70.5	95.1	94.4	94.4
85°	24.7	45.8	56.6	55.2	55.2
87.5°	9.5	18.9	20.3	20.3	19.6
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)