

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: P734185

Luminaire Tested: **24FCZ2-35-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734185  
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: 24FCZ2-35-B2750-W2D-CP375-5000K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

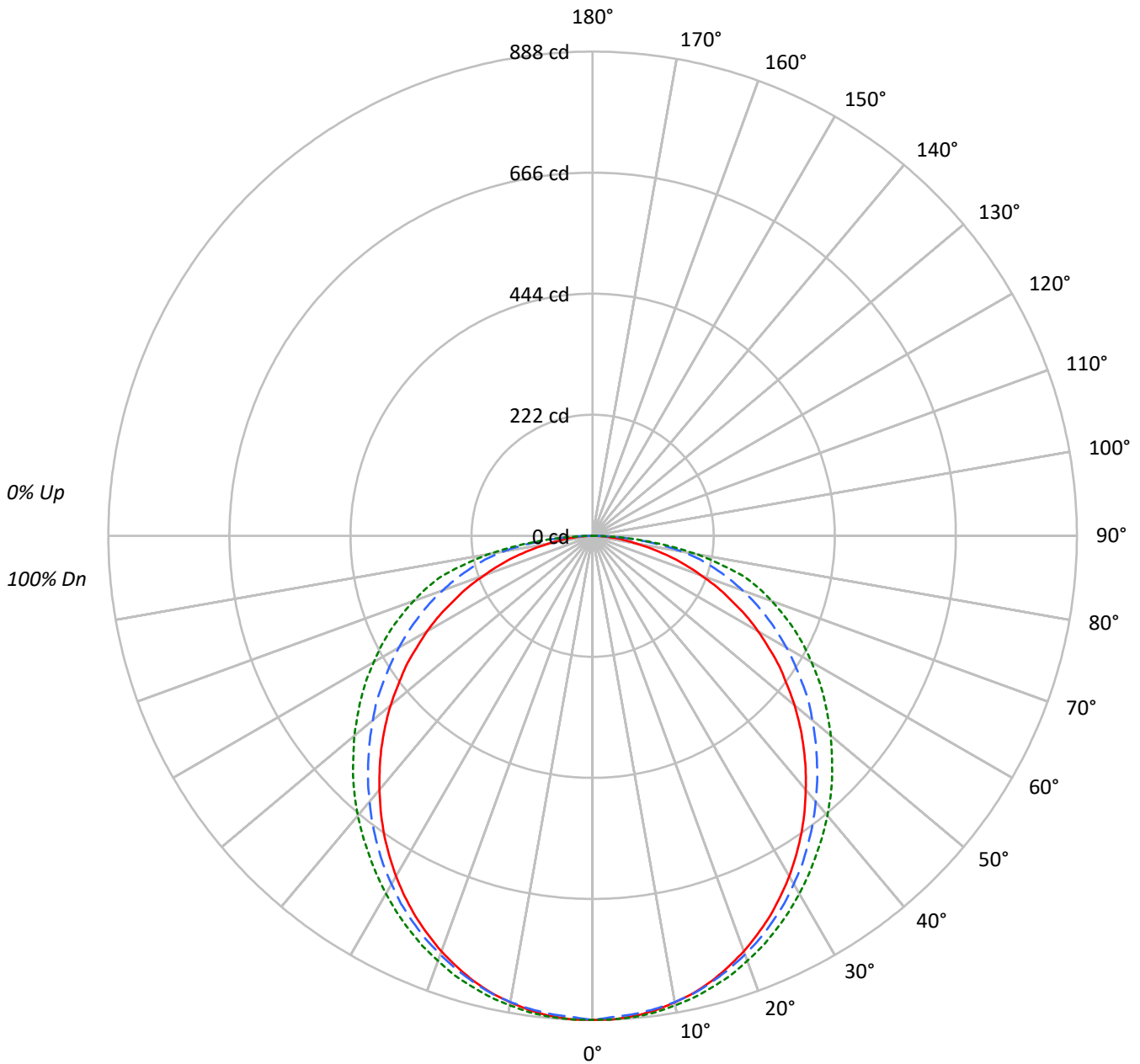
Lumens per Lamp: N/A  
Luminaire Lumens: 2644.0 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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°	1253	1253	1253
5°	1253	1248	1255
10°	1246	1244	1253
15°	1235	1238	1251
20°	1218	1227	1246
25°	1198	1216	1241
30°	1175	1202	1235
35°	1149	1187	1231
40°	1120	1172	1234
45°	1092	1161	1240
50°	1062	1155	1252
55°	1029	1153	1275
60°	989	1158	1308
65°	937	1176	1364
70°	870	1205	1442
75°	794	1266	1563
80°	653	1362	1564
85°	499	1257	1344



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.0	3.2
10°-20°	239.7	9.1
20°-30°	360.7	13.6
30°-40°	432.3	16.3
40°-50°	450.5	17.0
50°-60°	419.1	15.9
60°-70°	345.2	13.1
70°-80°	235.1	8.9
80°-90°	77.6	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°	684.4	25.9
0°-40°	1116.6	42.2
0°-60°	1986.1	75.1
0°-90°	2644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2644.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	884	884	881	885	886	84
15°	845	846	847	855	856	238
25°	770	773	781	794	797	354
35°	667	675	689	708	715	417
45°	547	559	582	611	621	422
55°	418	432	469	506	518	373
65°	281	304	352	394	408	279
75°	146	178	232	274	287	154
85°	31	60	78	83	83	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	887.8	887.8	887.8	887.8	887.8
2.5°	887.8	887.8	883.3	887.8	887.8
5°	884.1	884.1	880.6	885.1	885.9
7.5°	878.0	878.9	875.4	880.6	881.6
10°	869.1	870.1	868.3	873.6	874.5
12.5°	858.6	859.5	859.5	865.6	866.6
15°	845.3	846.3	847.1	855.1	856.0
17.5°	828.6	831.3	833.0	842.8	844.5
20°	811.0	813.6	817.1	827.7	829.5
22.5°	790.7	794.2	800.3	811.8	814.5
25°	769.5	773.0	781.0	794.2	796.8
27.5°	745.7	751.0	760.7	774.8	778.3
30°	721.0	726.2	737.7	752.7	758.0
32.5°	694.5	701.5	714.7	731.5	736.8
35°	667.1	675.0	689.2	707.7	714.7
37.5°	638.0	646.9	663.6	683.9	692.7
40°	608.0	618.6	636.2	660.0	669.7
42.5°	577.9	587.7	609.7	635.4	645.9
45°	547.1	558.6	581.6	610.6	621.2
47.5°	515.3	526.8	554.1	585.1	594.7
50°	483.6	495.1	525.9	558.6	570.1
52.5°	449.1	464.1	499.4	532.1	543.6
55°	418.3	432.3	468.6	505.6	518.0
57.5°	383.0	399.7	439.5	478.3	491.5
60°	350.3	368.0	410.3	450.0	463.3
62.5°	316.8	336.2	381.2	421.8	436.8
65°	280.6	304.4	352.0	393.5	408.5
67.5°	247.9	272.7	323.0	365.3	378.5
70°	210.9	240.9	292.1	334.5	349.5
72.5°	179.1	209.1	262.9	304.4	319.4
75°	145.6	178.3	232.1	273.5	286.7
77.5°	112.1	148.3	202.1	233.9	238.2
80°	80.3	118.3	167.6	186.2	192.4
82.5°	56.5	90.9	123.6	135.9	139.4
85°	30.8	60.0	77.6	83.0	83.0
87.5°	13.2	25.6	30.8	31.8	32.7
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)