

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: P734342

Luminaire Tested: **24FCZ2-35HE-RDP-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-35HE-RDP-B2750-W2D-CA125-3000K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND RDP LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

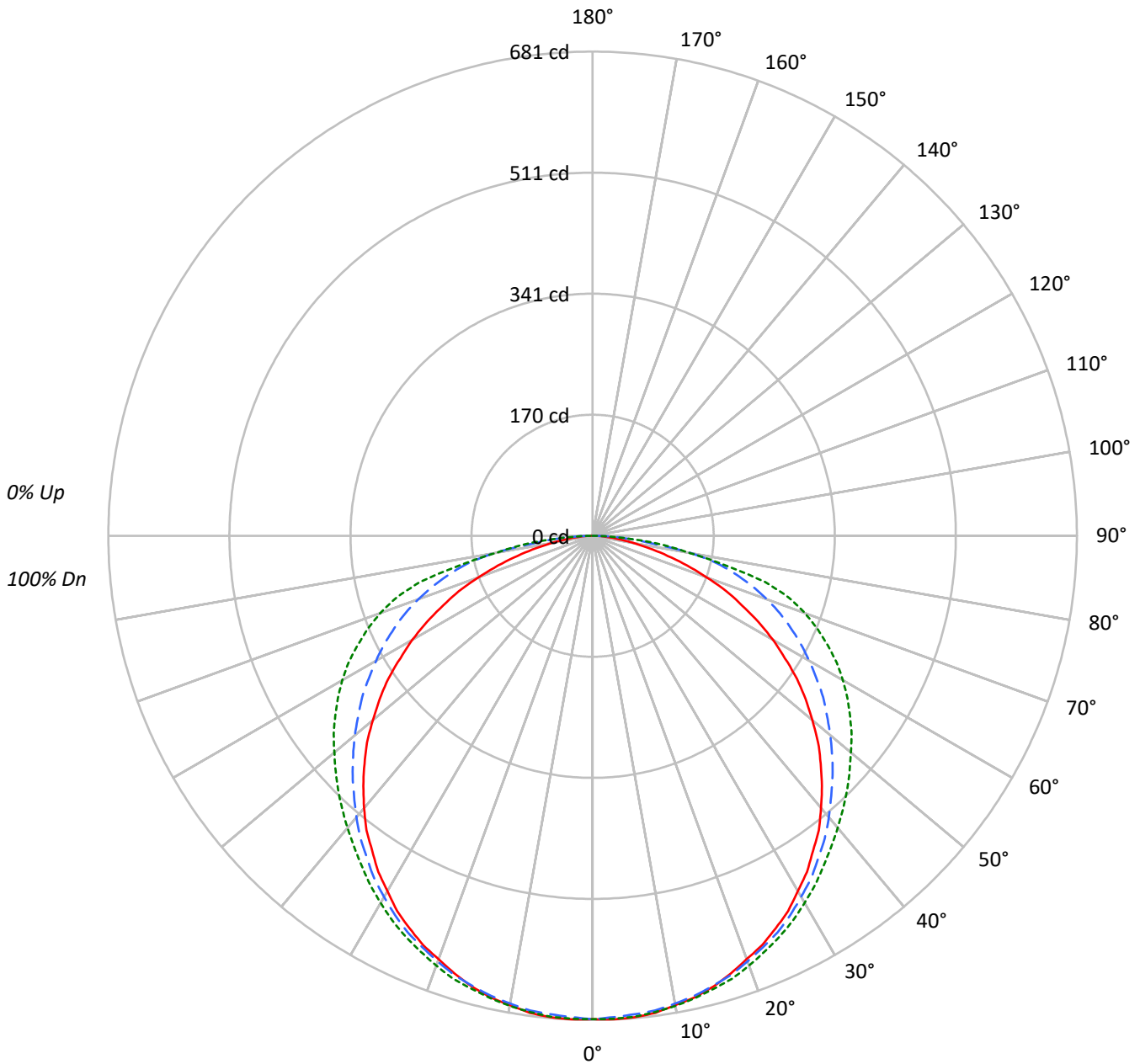
Lumens per Lamp: N/A  
Luminaire Lumens: 2162.0 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 26  
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				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				100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82				82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67				67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56				56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47				47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40				40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35				35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27				27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24				24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22				22

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

	0°	45°	90°
0°	960	960	960
5°	963	957	962
10°	960	957	962
15°	959	957	964
20°	952	957	966
25°	949	958	969
30°	940	956	972
35°	931	953	976
40°	921	952	988
45°	905	953	1010
50°	885	958	1041
55°	863	974	1087
60°	826	993	1147
65°	773	1028	1218
70°	704	1075	1310
75°	597	1135	1369
80°	471	1141	1107
85°	348	870	972



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.5	3.0
10°-20°	185.6	8.6
20°-30°	283.8	13.1
30°-40°	347.0	16.0
40°-50°	369.8	17.1
50°-60°	353.6	16.4
60°-70°	299.5	13.9
70°-80°	201.3	9.3
80°-90°	56.8	2.6
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°	534.0	24.7
0°-40°	880.9	40.7
0°-60°	1604.4	74.2
0°-90°	2162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2162.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	680	680	680	680	680	
5°	680	679	676	679	679	65
15°	656	656	655	661	660	185
25°	609	611	616	621	622	281
35°	540	545	553	564	566	339
45°	454	461	477	498	506	350
55°	351	364	396	427	442	312
65°	232	255	308	348	365	230
75°	109	149	208	244	251	117
85°	22	44	54	58	60	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	679.9	679.9	679.9	679.9	679.9
2.5°	680.9	680.9	677.7	679.9	679.9
5°	679.9	678.9	675.6	678.9	678.9
7.5°	676.7	675.6	673.4	676.7	675.6
10°	670.2	670.2	668.1	671.4	671.4
12.5°	664.9	663.9	662.7	667.0	665.9
15°	656.4	656.4	655.2	660.6	659.5
17.5°	645.6	646.7	647.7	652.0	653.1
20°	633.7	635.9	637.0	643.4	643.4
22.5°	623.0	624.2	626.2	632.7	632.7
25°	609.2	611.2	615.5	620.9	622.0
27.5°	595.2	596.2	601.7	609.2	610.2
30°	577.0	580.2	586.5	595.2	596.2
32.5°	560.8	564.0	571.5	580.2	582.3
35°	540.5	544.8	553.3	564.0	566.2
37.5°	522.3	525.5	536.2	548.0	551.2
40°	499.8	506.1	516.8	530.8	536.2
42.5°	477.3	483.6	496.5	514.8	521.2
45°	453.6	461.1	477.3	497.6	506.1
47.5°	430.1	438.6	456.8	480.4	490.1
50°	403.2	413.9	436.4	463.3	474.0
52.5°	377.4	390.4	415.1	445.1	459.0
55°	350.7	363.5	395.7	426.8	441.8
57.5°	320.7	337.7	373.2	408.6	424.6
60°	292.8	308.8	351.7	390.4	406.4
62.5°	262.8	284.2	330.2	371.0	387.1
65°	231.6	255.3	307.7	348.5	364.6
67.5°	203.8	229.5	285.3	326.0	342.1
70°	170.6	202.6	260.6	301.3	317.4
72.5°	139.4	174.8	234.8	274.5	289.5
75°	109.4	149.1	208.1	243.5	251.0
77.5°	81.5	123.4	180.1	195.1	189.8
80°	57.9	98.7	140.4	132.9	136.2
82.5°	37.5	75.1	86.9	98.7	101.9
85°	21.5	44.0	53.7	57.9	60.0
87.5°	9.7	16.0	21.5	21.5	20.4
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)