

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: P734343

Luminaire Tested: **24FCZ2-35HE-RDP-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734343  
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-CA125-3500K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RDP LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

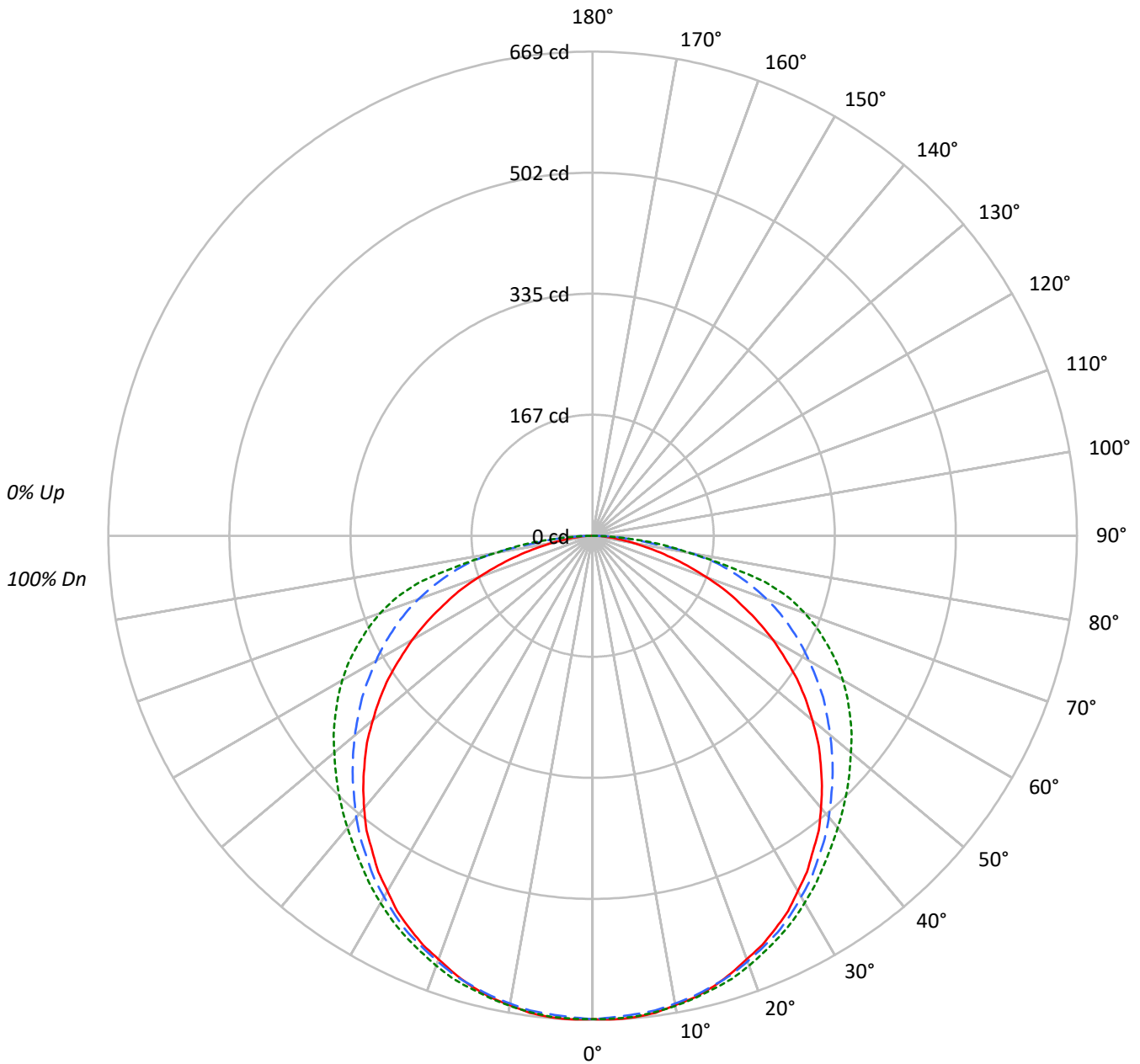
Lumens per Lamp: N/A  
Luminaire Lumens: 2124.0 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	943	943	943
5°	946	940	945
10°	944	941	945
15°	942	941	947
20°	935	940	949
25°	932	942	951
30°	924	939	955
35°	915	937	958
40°	905	936	971
45°	889	936	992
50°	870	941	1023
55°	848	956	1068
60°	812	975	1127
65°	760	1010	1196
70°	692	1056	1287
75°	586	1115	1345
80°	462	1122	1087
85°	342	853	954



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.4	3.0
10°-20°	182.3	8.6
20°-30°	278.9	13.1
30°-40°	340.9	16.0
40°-50°	363.3	17.1
50°-60°	347.4	16.4
60°-70°	294.3	13.9
70°-80°	197.8	9.3
80°-90°	55.8	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°	524.6	24.7
0°-40°	865.5	40.7
0°-60°	1576.2	74.2
0°-90°	2124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2124.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	668	667	664	667	667	63
15°	645	645	644	649	648	182
25°	598	600	605	610	611	276
35°	531	535	544	554	556	333
45°	446	453	469	489	497	344
55°	344	357	389	419	434	307
65°	228	251	302	342	358	226
75°	108	146	204	239	247	115
85°	21	43	53	57	59	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	667.9	667.9	667.9	667.9	667.9
2.5°	669.0	669.0	665.8	667.9	667.9
5°	667.9	666.9	663.8	666.9	666.9
7.5°	664.8	663.8	661.6	664.8	663.8
10°	658.4	658.4	656.4	659.6	659.6
12.5°	653.2	652.2	651.0	655.2	654.2
15°	644.8	644.8	643.7	649.0	647.9
17.5°	634.3	635.3	636.3	640.5	641.6
20°	622.6	624.8	625.8	632.1	632.1
22.5°	612.0	613.2	615.2	621.6	621.6
25°	598.5	600.5	604.7	610.0	611.0
27.5°	584.7	585.8	591.1	598.5	599.5
30°	566.8	570.0	576.2	584.7	585.8
32.5°	550.9	554.1	561.5	570.0	572.0
35°	531.0	535.2	543.6	554.1	556.3
37.5°	513.1	516.3	526.8	538.4	541.5
40°	491.0	497.2	507.8	521.5	526.8
42.5°	468.9	475.1	487.8	505.7	512.1
45°	445.6	453.0	468.9	488.8	497.2
47.5°	422.5	430.9	448.8	471.9	481.5
50°	396.1	406.6	428.7	455.2	465.7
52.5°	370.8	383.5	407.8	437.3	451.0
55°	344.5	357.1	388.7	419.3	434.1
57.5°	315.0	331.8	366.6	401.4	417.2
60°	287.6	303.4	345.5	383.5	399.3
62.5°	258.1	279.2	324.4	364.5	380.3
65°	227.5	250.8	302.3	342.4	358.2
67.5°	200.2	225.5	280.2	320.3	336.1
70°	167.6	199.1	256.0	296.0	311.9
72.5°	136.9	171.7	230.7	269.7	284.4
75°	107.5	146.5	204.4	239.2	246.6
77.5°	80.0	121.2	177.0	191.7	186.5
80°	56.9	96.9	138.0	130.6	133.8
82.5°	36.8	73.8	85.4	96.9	100.1
85°	21.1	43.2	52.7	56.9	58.9
87.5°	9.5	15.8	21.1	21.1	20.1
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)