

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: P734339

Luminaire Tested: **24FCZ2-35HE-RDP-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734339  
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-CA08-4000K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

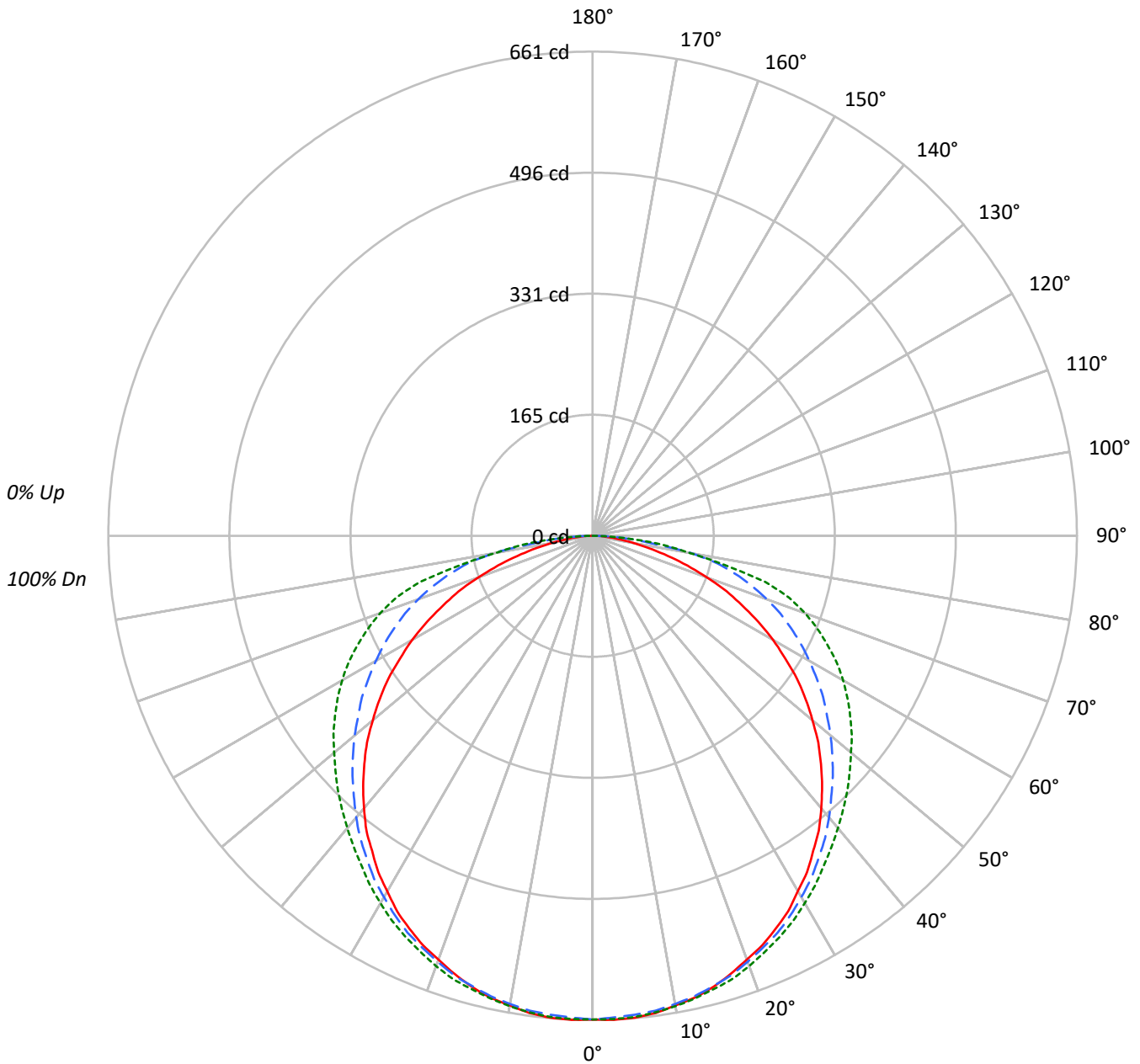
Lumens per Lamp: N/A  
Luminaire Lumens: 2100.0 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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									
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	68	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°	932	932	932
5°	936	930	934
10°	933	930	935
15°	931	930	936
20°	925	929	939
25°	921	931	941
30°	913	928	944
35°	905	926	948
40°	894	925	960
45°	879	925	981
50°	860	931	1011
55°	838	946	1056
60°	803	964	1114
65°	751	998	1183
70°	684	1044	1272
75°	580	1102	1329
80°	458	1109	1075
85°	337	844	944



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.6	3.0
10°-20°	180.3	8.6
20°-30°	275.7	13.1
30°-40°	337.0	16.0
40°-50°	359.2	17.1
50°-60°	343.5	16.4
60°-70°	290.9	13.9
70°-80°	195.5	9.3
80°-90°	55.2	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°	518.6	24.7
0°-40°	855.7	40.7
0°-60°	1558.4	74.2
0°-90°	2100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	660	660	660	660	660	
5°	660	659	656	659	659	63
15°	638	638	636	642	641	180
25°	592	594	598	603	604	273
35°	525	529	537	548	550	329
45°	441	448	464	483	492	340
55°	341	353	384	415	429	303
65°	225	248	299	338	354	223
75°	106	145	202	236	244	114
85°	21	43	52	56	58	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	660.4	660.4	660.4	660.4	660.4
2.5°	661.4	661.4	658.3	660.4	660.4
5°	660.4	659.4	656.3	659.4	659.4
7.5°	657.3	656.3	654.1	657.3	656.3
10°	651.0	651.0	649.0	652.1	652.1
12.5°	645.8	644.8	643.7	647.8	646.8
15°	637.5	637.5	636.4	641.7	640.6
17.5°	627.1	628.1	629.1	633.3	634.4
20°	615.6	617.7	618.7	625.0	625.0
22.5°	605.1	606.3	608.3	614.6	614.6
25°	591.7	593.7	597.8	603.1	604.1
27.5°	578.1	579.1	584.4	591.7	592.7
30°	560.4	563.6	569.7	578.1	579.1
32.5°	544.7	547.9	555.1	563.6	565.6
35°	525.0	529.1	537.4	547.9	550.0
37.5°	507.3	510.4	520.9	532.3	535.4
40°	485.4	491.6	502.0	515.6	520.9
42.5°	463.6	469.7	482.3	500.0	506.3
45°	440.6	447.9	463.6	483.3	491.6
47.5°	417.7	426.0	443.7	466.6	476.0
50°	391.6	402.0	423.9	450.0	460.4
52.5°	366.6	379.2	403.2	432.3	445.9
55°	340.6	353.1	384.3	414.6	429.2
57.5°	311.5	328.1	362.5	396.9	412.5
60°	284.4	299.9	341.6	379.2	394.8
62.5°	255.2	276.1	320.8	360.3	376.0
65°	224.9	247.9	298.9	338.5	354.2
67.5°	197.9	222.9	277.1	316.6	332.3
70°	165.7	196.8	253.1	292.6	308.3
72.5°	135.4	169.8	228.1	266.6	281.2
75°	106.3	144.8	202.1	236.5	243.8
77.5°	79.1	119.8	175.0	189.5	184.4
80°	56.3	95.8	136.4	129.1	132.3
82.5°	36.4	73.0	84.4	95.8	99.0
85°	20.8	42.7	52.1	56.3	58.3
87.5°	9.4	15.6	20.8	20.8	19.8
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)