

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: P734320

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734320  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-35HE-HRP-B2750-W2D-CA125-5000K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

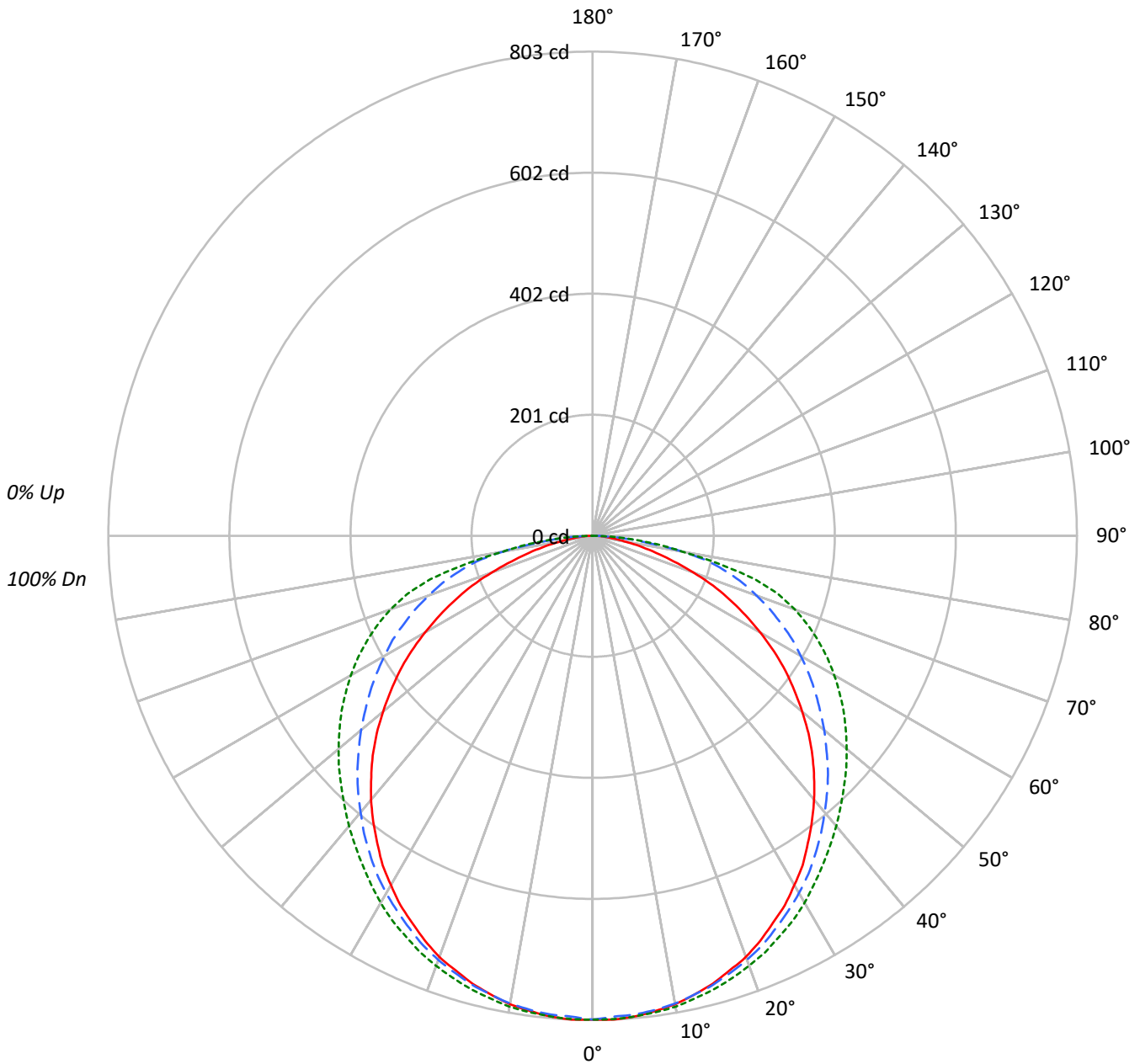
Lumens per Lamp: N/A  
Luminaire Lumens: 2473.0 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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					
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	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	101	96	93	96	93	90	92	90	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	59	68	63	58	56								
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	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	38	50	43	38	49	42	38	36								
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31								
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28								
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25								
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23								

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

	0°	45°	90°
0°	1132	1132	1132
5°	1134	1129	1134
10°	1131	1129	1137
15°	1124	1127	1138
20°	1117	1124	1140
25°	1103	1119	1141
30°	1090	1115	1145
35°	1072	1110	1147
40°	1053	1102	1158
45°	1029	1101	1176
50°	996	1100	1207
55°	960	1108	1251
60°	906	1125	1306
65°	837	1151	1379
70°	731	1192	1470
75°	593	1253	1519
80°	437	1229	1229
85°	335	907	1022



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.0	3.1
10°-20°	218.3	8.8
20°-30°	332.3	13.4
30°-40°	403.5	16.3
40°-50°	426.3	17.2
50°-60°	402.2	16.3
60°-70°	334.4	13.5
70°-80°	220.0	8.9
80°-90°	60.0	2.4
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°	626.6	25.3
0°-40°	1030.0	41.7
0°-60°	1858.5	75.2
0°-90°	2473.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2473.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	800	800	797	800	800	76
15°	769	770	771	779	779	217
25°	708	712	718	731	733	327
35°	622	629	644	660	666	390
45°	516	526	552	579	589	397
55°	390	407	450	493	508	348
65°	251	280	345	396	413	248
75°	109	158	230	272	278	117
85°	21	46	56	62	63	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	802.4	802.4	802.4	802.4	802.4
2.5°	803.4	802.4	798.2	802.4	802.4
5°	800.3	800.3	797.1	800.3	800.3
7.5°	795.1	795.1	793.1	797.1	797.1
10°	789.0	789.0	787.8	793.1	793.1
12.5°	779.6	780.6	779.6	785.8	785.8
15°	769.2	770.3	771.3	778.6	778.6
17.5°	755.8	757.8	759.9	768.2	769.2
20°	743.4	744.4	748.5	757.8	758.9
22.5°	726.7	729.9	735.1	744.4	747.5
25°	708.2	712.3	718.5	731.0	733.0
27.5°	690.5	693.7	701.9	715.3	719.6
30°	668.9	674.0	684.3	697.8	702.9
32.5°	648.1	653.2	665.7	680.3	684.3
35°	622.3	629.4	644.0	660.5	665.7
37.5°	597.4	604.6	622.3	640.8	647.1
40°	571.4	579.7	598.4	620.2	628.4
42.5°	543.5	554.9	575.6	599.5	608.8
45°	515.6	526.0	551.8	578.7	589.1
47.5°	485.5	497.9	526.0	558.0	570.4
50°	453.5	469.0	501.1	536.3	549.8
52.5°	421.4	438.9	475.1	514.6	529.0
55°	390.3	406.9	450.3	492.8	508.3
57.5°	356.2	376.8	424.4	470.0	485.5
60°	321.0	343.8	398.6	446.2	462.7
62.5°	285.8	311.6	373.7	421.4	438.9
65°	250.6	279.5	344.8	395.5	413.0
67.5°	216.4	248.5	317.8	368.6	386.2
70°	177.1	217.4	288.8	338.5	356.2
72.5°	140.8	187.4	260.9	307.5	323.0
75°	108.7	158.4	229.8	272.3	278.5
77.5°	79.8	129.4	197.7	212.3	213.3
80°	53.8	103.6	151.2	149.0	151.2
82.5°	35.2	77.6	95.3	106.7	107.7
85°	20.7	45.6	56.0	62.1	63.1
87.5°	10.4	15.5	19.7	20.7	22.8
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)