

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: P734323

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734323  
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-CP187-3500K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND HRP LENS, WITH, CP187 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

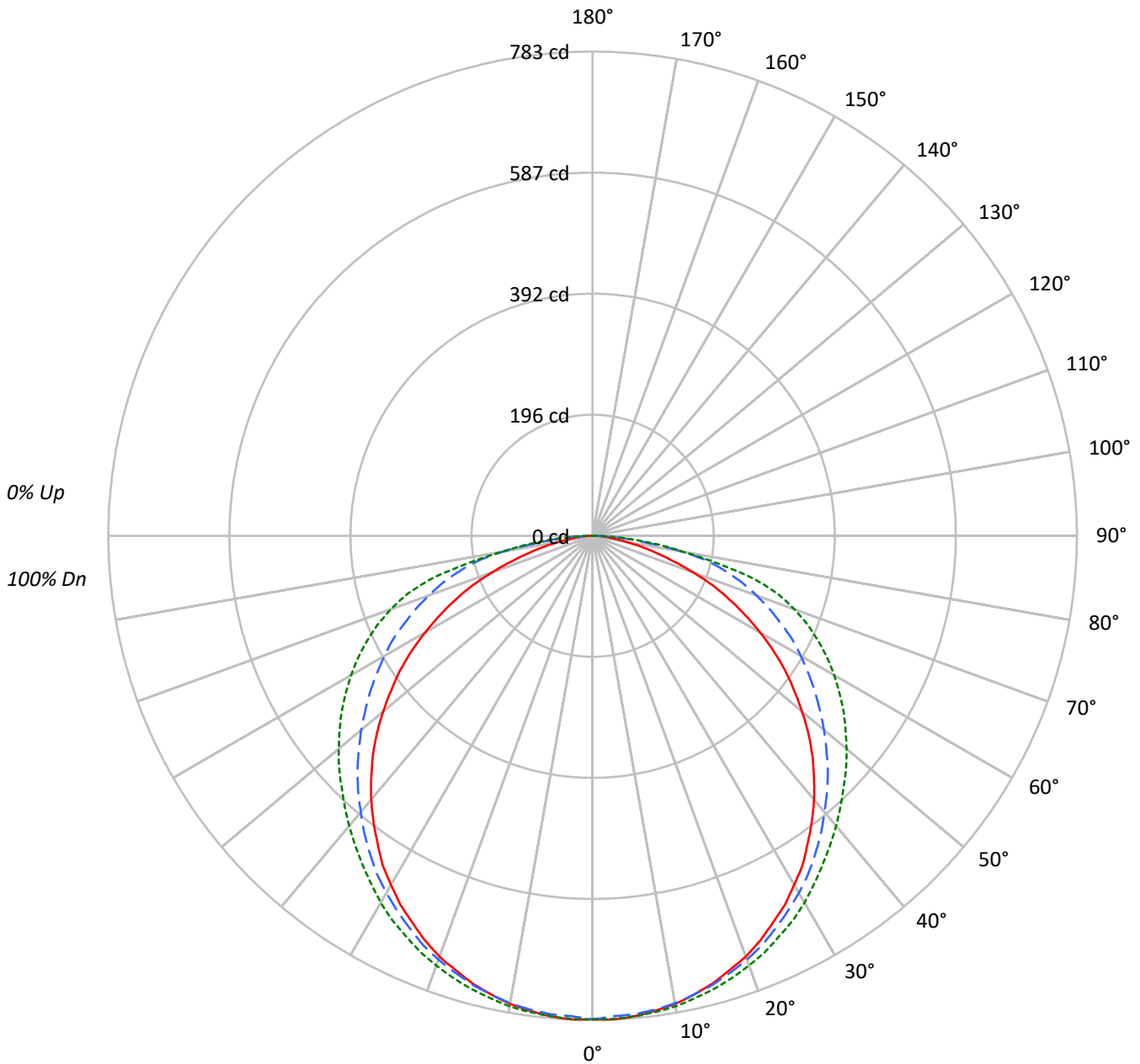
Lumens per Lamp: N/A  
Luminaire Lumens: 2410.0 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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									
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	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°	1104	1104	1104
5°	1105	1101	1105
10°	1102	1100	1108
15°	1095	1098	1109
20°	1088	1095	1111
25°	1075	1090	1112
30°	1062	1087	1116
35°	1045	1081	1118
40°	1026	1074	1128
45°	1003	1073	1146
50°	970	1072	1176
55°	936	1080	1219
60°	883	1096	1273
65°	816	1122	1344
70°	712	1162	1432
75°	577	1221	1480
80°	426	1198	1198
85°	327	883	996



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.1	3.1
10°-20°	212.7	8.8
20°-30°	323.8	13.4
30°-40°	393.2	16.3
40°-50°	415.4	17.2
50°-60°	392.0	16.3
60°-70°	325.9	13.5
70°-80°	214.4	8.9
80°-90°	58.4	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°	610.6	25.3
0°-40°	1003.8	41.7
0°-60°	1811.2	75.2
0°-90°	2410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2410.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	782	782	782	782	782	
5°	780	780	777	780	780	74
15°	750	751	752	759	759	211
25°	690	694	700	712	714	318
35°	606	613	628	644	649	380
45°	502	513	538	564	574	387
55°	380	396	439	480	495	339
65°	244	272	336	385	402	241
75°	106	154	224	265	271	114
85°	20	44	54	60	62	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	782.0	782.0	782.0	782.0	782.0
2.5°	783.0	782.0	777.8	782.0	782.0
5°	780.0	780.0	776.8	780.0	780.0
7.5°	774.8	774.8	772.8	776.8	776.8
10°	768.9	768.9	767.7	772.8	772.8
12.5°	759.7	760.7	759.7	765.7	765.7
15°	749.6	750.6	751.6	758.7	758.7
17.5°	736.5	738.5	740.5	748.6	749.6
20°	724.4	725.4	729.4	738.5	739.5
22.5°	708.2	711.3	716.3	725.4	728.4
25°	690.1	694.1	700.2	712.3	714.3
27.5°	672.9	676.0	684.0	697.1	701.2
30°	651.8	656.8	666.9	680.0	685.0
32.5°	631.6	636.6	648.7	662.9	666.9
35°	606.4	613.4	627.6	643.7	648.7
37.5°	582.2	589.2	606.4	624.5	630.6
40°	556.9	565.0	583.2	604.4	612.4
42.5°	529.7	540.8	561.0	584.2	593.3
45°	502.5	512.6	537.8	564.0	574.1
47.5°	473.1	485.2	512.6	543.8	555.9
50°	441.9	457.0	488.4	522.7	535.8
52.5°	410.6	427.7	463.0	501.5	515.6
55°	380.3	396.5	438.8	480.3	495.4
57.5°	347.1	367.2	413.6	458.0	473.1
60°	312.8	335.0	388.4	434.8	450.9
62.5°	278.5	303.7	364.2	410.6	427.7
65°	244.2	272.4	336.0	385.4	402.5
67.5°	210.9	242.2	309.7	359.2	376.3
70°	172.6	211.9	281.5	329.9	347.1
72.5°	137.3	182.7	254.3	299.7	314.8
75°	105.9	154.3	224.0	265.4	271.4
77.5°	77.7	126.1	192.7	206.9	207.9
80°	52.4	100.9	147.4	145.2	147.4
82.5°	34.3	75.6	92.8	103.9	104.9
85°	20.2	44.4	54.5	60.5	61.5
87.5°	10.1	15.1	19.2	20.2	22.2
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)