

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: P734314

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734314  
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-CA08-4000K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND HRP LENS, WITH, CA08 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

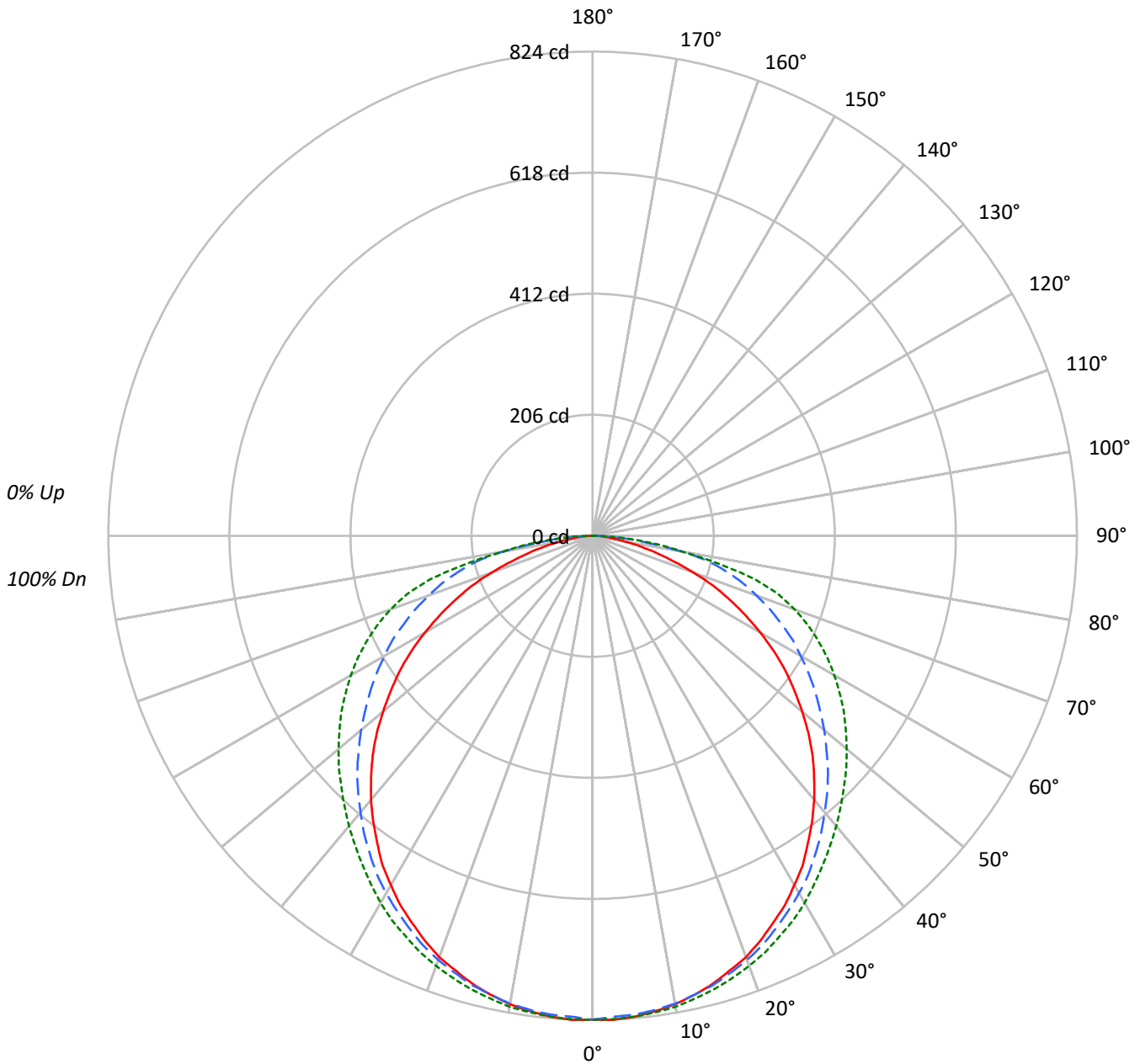
Lumens per Lamp: N/A  
Luminaire Lumens: 2538.0 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1162	1162	1162
5°	1164	1159	1164
10°	1160	1159	1166
15°	1154	1157	1167
20°	1146	1154	1170
25°	1132	1148	1172
30°	1119	1145	1176
35°	1100	1139	1177
40°	1080	1132	1188
45°	1056	1130	1207
50°	1022	1129	1239
55°	985	1137	1284
60°	930	1155	1340
65°	859	1182	1416
70°	750	1223	1509
75°	609	1286	1558
80°	449	1261	1261
85°	345	929	1049



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.0	3.1
10°-20°	224.0	8.8
20°-30°	341.0	13.4
30°-40°	414.1	16.3
40°-50°	437.5	17.2
50°-60°	412.8	16.3
60°-70°	343.2	13.5
70°-80°	225.8	8.9
80°-90°	61.6	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°	643.0	25.3
0°-40°	1057.1	41.7
0°-60°	1907.4	75.2
0°-90°	2538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2538.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	821	821	818	821	821	78
15°	790	790	792	799	799	223
25°	727	731	737	750	752	335
35°	639	646	661	678	683	400
45°	529	540	566	594	605	407
55°	400	418	462	506	522	357
65°	257	287	354	406	424	254
75°	112	162	236	280	286	120
85°	21	47	57	64	65	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	823.5	823.5	823.5	823.5	823.5
2.5°	824.5	823.5	819.2	823.5	823.5
5°	821.4	821.4	818.1	821.4	821.4
7.5°	816.0	816.0	813.9	818.1	818.1
10°	809.7	809.7	808.5	813.9	813.9
12.5°	800.1	801.1	800.1	806.4	806.4
15°	789.5	790.5	791.6	799.0	799.0
17.5°	775.7	777.8	779.9	788.4	789.5
20°	762.9	764.0	768.2	777.8	778.8
22.5°	745.8	749.1	754.4	764.0	767.1
25°	726.8	731.0	737.4	750.2	752.3
27.5°	708.6	711.9	720.3	734.1	738.5
30°	686.4	691.7	702.3	716.1	721.4
32.5°	665.2	670.4	683.2	698.1	702.3
35°	638.6	646.0	660.9	677.9	683.2
37.5°	613.1	620.5	638.6	657.7	664.1
40°	586.4	595.0	614.2	636.5	644.9
42.5°	557.8	569.5	590.8	615.2	624.8
45°	529.2	539.8	566.3	593.9	604.6
47.5°	498.3	511.0	539.8	572.6	585.4
50°	465.4	481.3	514.3	550.4	564.2
52.5°	432.4	450.4	487.6	528.1	542.9
55°	400.5	417.6	462.1	505.8	521.7
57.5°	365.6	386.7	435.6	482.4	498.3
60°	329.4	352.8	409.1	457.9	474.9
62.5°	293.3	319.8	383.6	432.4	450.4
65°	257.2	286.8	353.9	405.9	423.9
67.5°	222.1	255.0	326.1	378.3	396.3
70°	181.7	223.1	296.4	347.4	365.6
72.5°	144.5	192.4	267.8	315.6	331.5
75°	111.6	162.5	235.9	279.5	285.8
77.5°	81.9	132.8	202.9	217.9	218.9
80°	55.2	106.3	155.2	153.0	155.2
82.5°	36.1	79.6	97.8	109.5	110.5
85°	21.3	46.8	57.4	63.7	64.8
87.5°	10.6	15.9	20.2	21.3	23.4
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)