

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: P734313

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734313  
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-CA08-3500K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND HRP LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

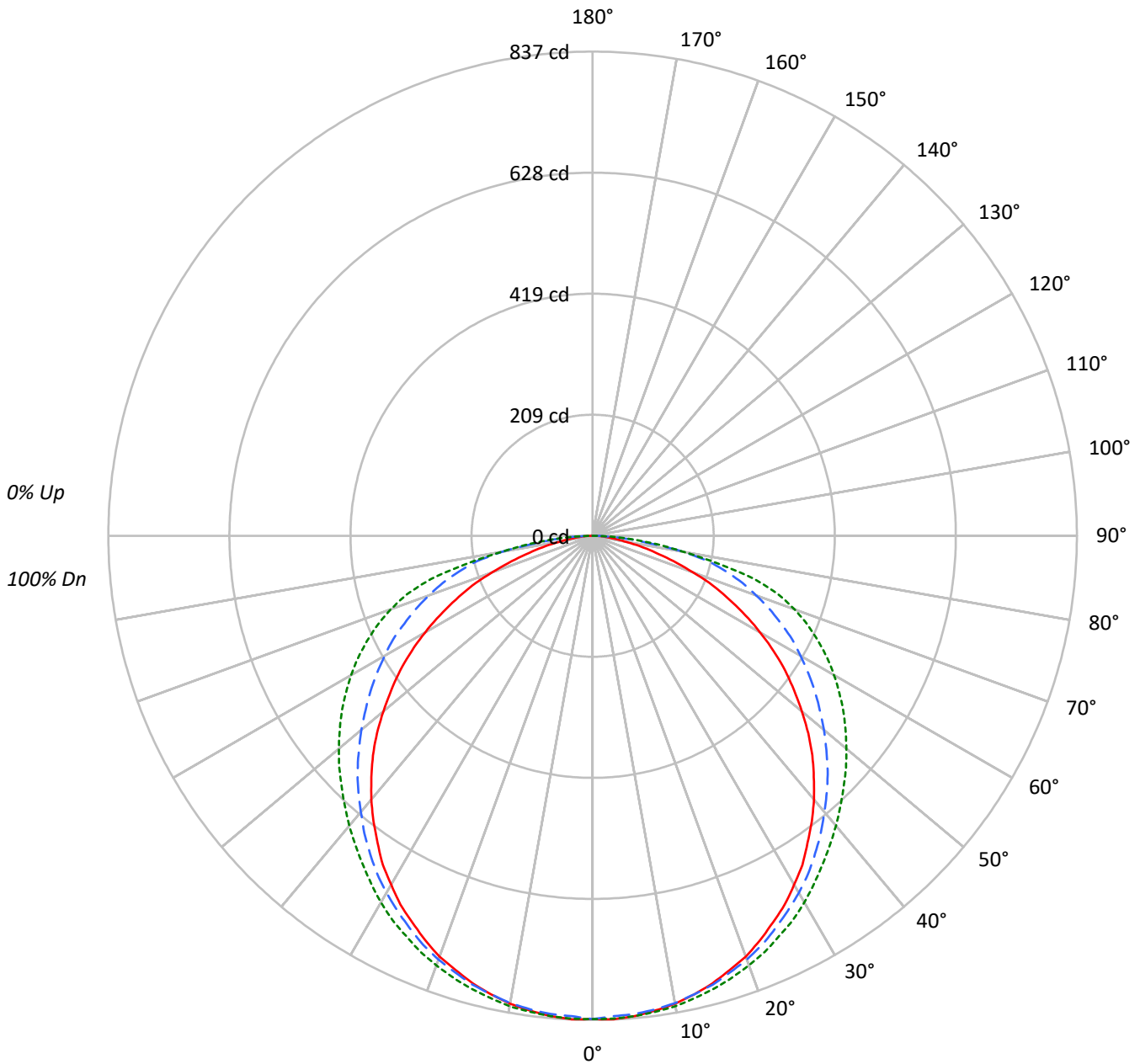
Lumens per Lamp: N/A  
Luminaire Lumens: 2575.0 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1179	1179	1179
5°	1181	1176	1181
10°	1177	1176	1183
15°	1170	1173	1185
20°	1162	1171	1187
25°	1148	1165	1188
30°	1135	1161	1193
35°	1116	1155	1194
40°	1096	1148	1205
45°	1072	1147	1224
50°	1037	1146	1257
55°	1000	1154	1302
60°	943	1171	1360
65°	871	1199	1436
70°	761	1241	1531
75°	617	1305	1581
80°	455	1279	1279
85°	350	944	1064



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.1	3.1
10°-20°	227.3	8.8
20°-30°	346.0	13.4
30°-40°	420.1	16.3
40°-50°	443.9	17.2
50°-60°	418.8	16.3
60°-70°	348.2	13.5
70°-80°	229.1	8.9
80°-90°	62.5	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°	652.4	25.3
0°-40°	1072.5	41.7
0°-60°	1935.2	75.2
0°-90°	2575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2575.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	833	833	830	833	833	79
15°	801	802	803	811	811	226
25°	737	742	748	761	763	340
35°	648	655	671	688	693	406
45°	537	548	575	603	613	413
55°	406	424	469	513	529	362
65°	261	291	359	412	430	258
75°	113	165	239	284	290	122
85°	22	48	58	65	66	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	835.5	835.5	835.5	835.5	835.5
2.5°	836.6	835.5	831.1	835.5	835.5
5°	833.4	833.4	830.0	833.4	833.4
7.5°	827.9	827.9	825.8	830.0	830.0
10°	821.5	821.5	820.3	825.8	825.8
12.5°	811.8	812.8	811.8	818.2	818.2
15°	801.0	802.0	803.1	810.7	810.7
17.5°	787.0	789.1	791.2	799.9	801.0
20°	774.0	775.1	779.4	789.1	790.2
22.5°	756.7	760.0	765.4	775.1	778.3
25°	737.4	741.6	748.2	761.1	763.2
27.5°	719.0	722.3	730.8	744.8	749.2
30°	696.4	701.8	712.6	726.6	731.9
32.5°	674.8	680.2	693.1	708.3	712.6
35°	647.9	655.4	670.6	687.8	693.1
37.5°	622.1	629.5	647.9	667.2	673.8
40°	595.0	603.7	623.1	645.8	654.3
42.5°	565.9	577.8	599.4	624.2	633.9
45°	536.9	547.7	574.6	602.6	613.4
47.5°	505.5	518.5	547.7	581.0	593.9
50°	472.2	488.3	521.8	558.5	572.5
52.5°	438.7	457.0	494.7	535.8	550.9
55°	406.3	423.7	468.9	513.1	529.3
57.5°	370.9	392.3	441.9	489.4	505.5
60°	334.2	358.0	415.0	464.6	481.8
62.5°	297.6	324.5	389.2	438.7	457.0
65°	260.9	291.0	359.0	411.8	430.1
67.5°	225.3	258.8	330.9	383.8	402.1
70°	184.4	226.4	300.8	352.5	370.9
72.5°	146.6	195.2	271.7	320.2	336.4
75°	113.2	164.9	239.3	283.6	290.0
77.5°	83.1	134.8	205.8	221.0	222.1
80°	56.0	107.9	157.4	155.2	157.4
82.5°	36.7	80.8	99.2	111.1	112.1
85°	21.6	47.5	58.3	64.7	65.7
87.5°	10.8	16.1	20.5	21.6	23.7
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)