

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: P734327

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P734327  
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-CP250-3000K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

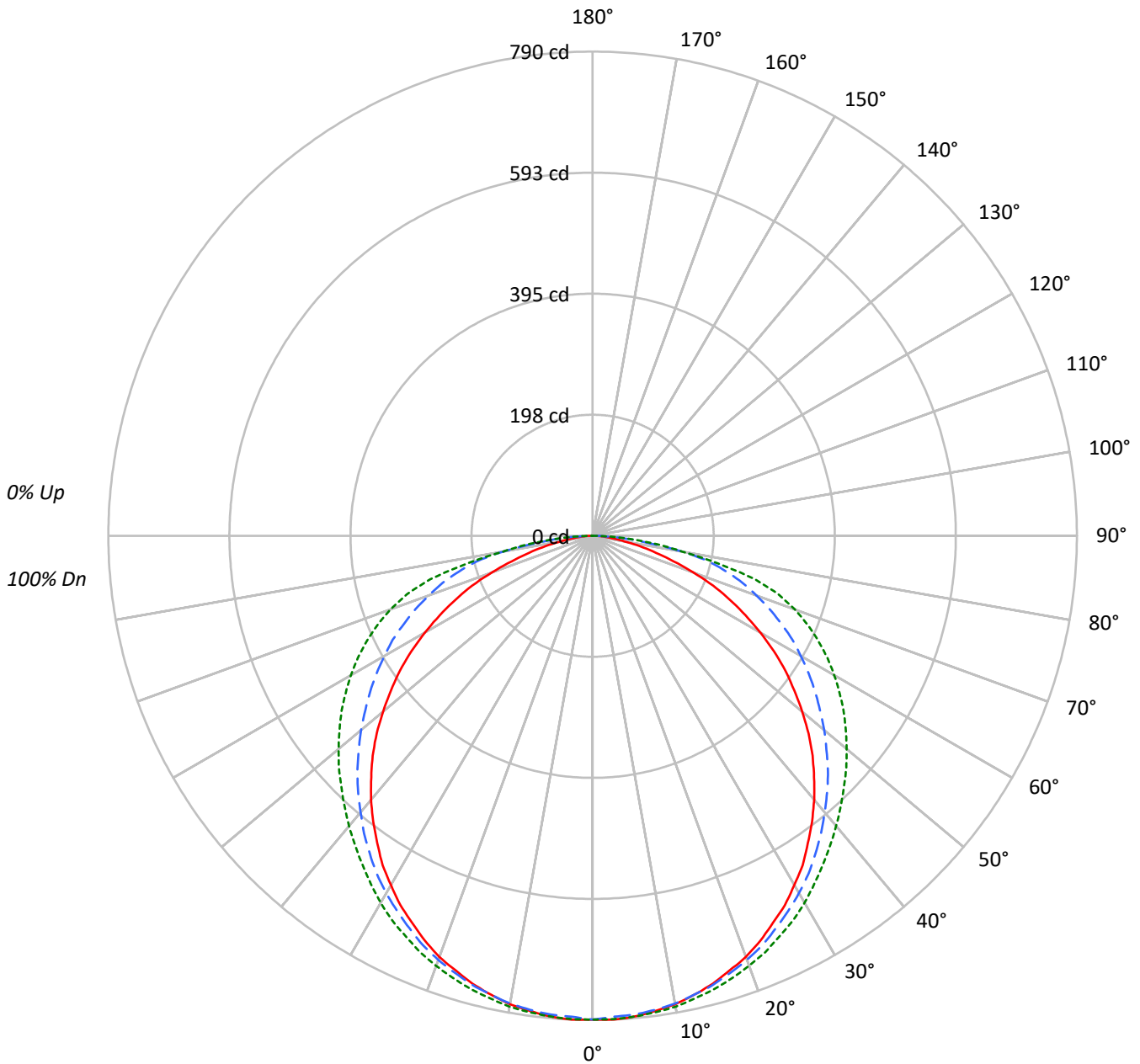
Lumens per Lamp: N/A  
Luminaire Lumens: 2433.0 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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									
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°	1114	1114	1114
5°	1116	1111	1116
10°	1112	1111	1118
15°	1106	1109	1119
20°	1098	1106	1121
25°	1085	1101	1123
30°	1072	1097	1127
35°	1055	1092	1128
40°	1036	1085	1139
45°	1013	1084	1157
50°	980	1082	1188
55°	945	1090	1231
60°	891	1107	1285
65°	823	1133	1357
70°	719	1173	1446
75°	583	1233	1494
80°	430	1209	1209
85°	330	891	1006



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.8	3.1
10°-20°	214.7	8.8
20°-30°	326.9	13.4
30°-40°	397.0	16.3
40°-50°	419.4	17.2
50°-60°	395.7	16.3
60°-70°	329.0	13.5
70°-80°	216.5	8.9
80°-90°	59.0	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°	616.4	25.3
0°-40°	1013.4	41.7
0°-60°	1828.5	75.2
0°-90°	2433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2433.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	787	787	784	787	787	75
15°	757	758	759	766	766	213
25°	697	701	707	719	721	321
35°	612	619	634	650	655	383
45°	507	518	543	569	580	391
55°	384	400	443	485	500	342
65°	246	275	339	389	406	244
75°	107	156	226	268	274	115
85°	20	45	55	61	62	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	789.4	789.4	789.4	789.4	789.4
2.5°	790.4	789.4	785.3	789.4	789.4
5°	787.4	787.4	784.3	787.4	787.4
7.5°	782.2	782.2	780.2	784.3	784.3
10°	776.2	776.2	775.1	780.2	780.2
12.5°	767.0	768.0	767.0	773.0	773.0
15°	756.8	757.8	758.8	766.0	766.0
17.5°	743.6	745.6	747.6	755.8	756.8
20°	731.3	732.4	736.4	745.6	746.6
22.5°	715.0	718.1	723.2	732.4	735.4
25°	696.7	700.7	706.9	719.1	721.1
27.5°	679.3	682.5	690.5	703.8	707.9
30°	658.0	663.1	673.3	686.5	691.5
32.5°	637.6	642.7	654.9	669.2	673.3
35°	612.2	619.2	633.6	649.9	654.9
37.5°	587.8	594.8	612.2	630.5	636.6
40°	562.2	570.4	588.8	610.2	618.2
42.5°	534.7	545.9	566.3	589.8	599.0
45°	507.3	517.5	542.9	569.4	579.6
47.5°	477.7	489.9	517.5	549.0	561.2
50°	446.2	461.4	493.0	527.7	540.9
52.5°	414.5	431.8	467.5	506.3	520.5
55°	383.9	400.3	443.0	484.8	500.1
57.5°	350.4	370.7	417.6	462.4	477.7
60°	315.8	338.2	392.1	439.0	455.2
62.5°	281.2	306.6	367.7	414.5	431.8
65°	246.5	275.0	339.2	389.1	406.4
67.5°	212.9	244.5	312.6	362.7	379.9
70°	174.2	213.9	284.2	333.0	350.4
72.5°	138.6	184.4	256.7	302.6	317.8
75°	106.9	155.8	226.1	267.9	274.0
77.5°	78.5	127.4	194.5	208.8	209.9
80°	52.9	101.9	148.8	146.6	148.8
82.5°	34.6	76.3	93.7	104.9	105.9
85°	20.4	44.8	55.0	61.1	62.1
87.5°	10.2	15.2	19.4	20.4	22.4
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)