

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: P734129

Luminaire Tested: **24FCZ2-30HE-S-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734129  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30HE-S-B2750-W2D-CP250-4000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

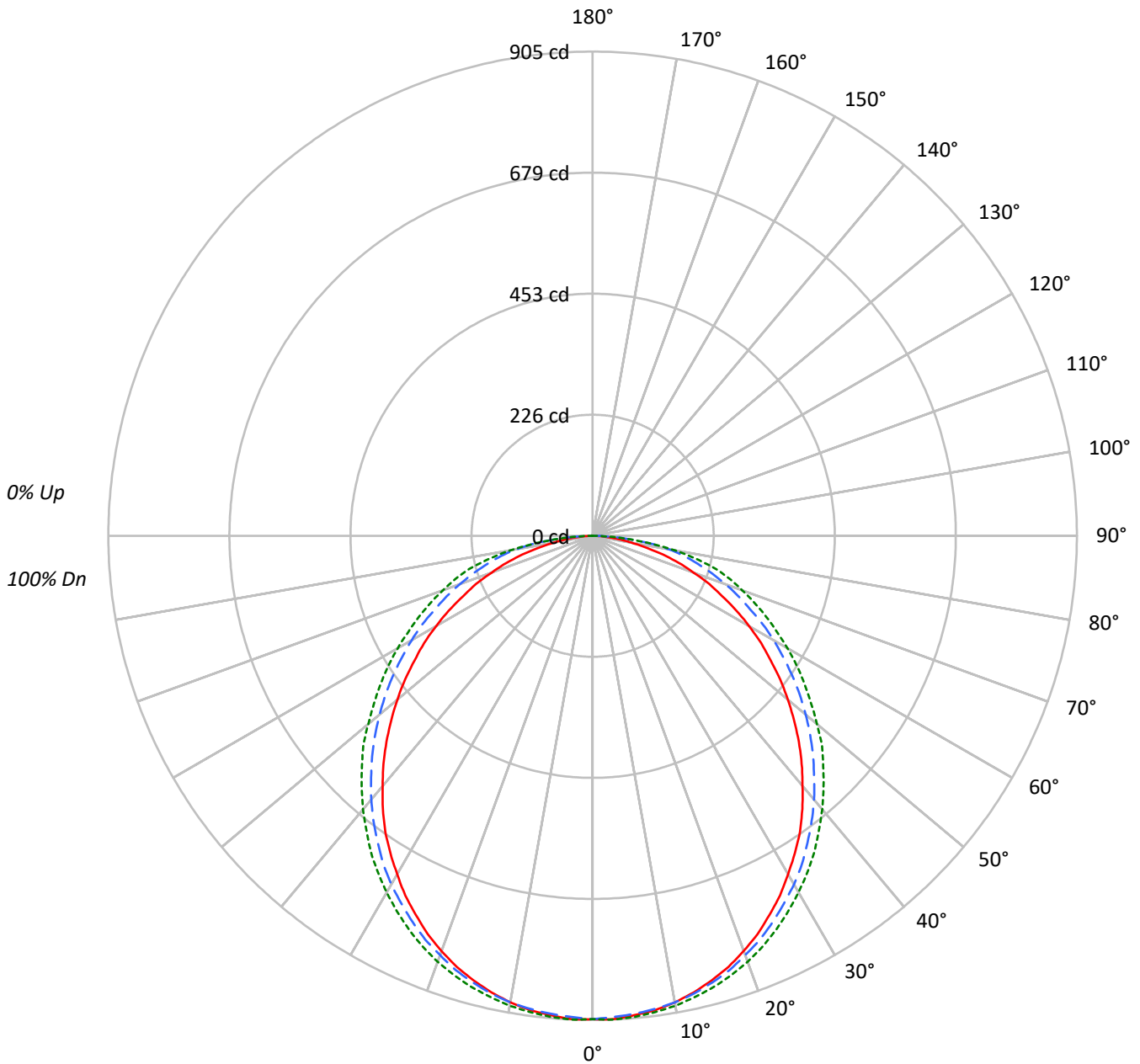
Lumens per Lamp: N/A  
Luminaire Lumens: 2572.0 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 22  
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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

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

	0°	45°	90°
0°	1275	1275	1275
5°	1274	1271	1279
10°	1269	1269	1278
15°	1257	1263	1276
20°	1240	1253	1272
25°	1217	1240	1265
30°	1190	1226	1254
35°	1164	1206	1244
40°	1124	1186	1230
45°	1088	1163	1217
50°	1046	1141	1202
55°	999	1120	1190
60°	952	1102	1188
65°	892	1083	1195
70°	826	1089	1227
75°	739	1110	1296
80°	597	1175	1268
85°	450	1032	1006



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.5	3.3
10°-20°	244.4	9.5
20°-30°	367.4	14.3
30°-40°	437.7	17.0
40°-50°	447.9	17.4
50°-60°	403.3	15.7
60°-70°	316.7	12.3
70°-80°	205.5	8.0
80°-90°	63.6	2.5
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°	697.4	27.1
0°-40°	1135.0	44.1
0°-60°	1986.2	77.2
0°-90°	2572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2572.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	900	901	897	902	903	85
15°	860	863	864	872	873	243
25°	782	788	796	810	812	360
35°	676	684	700	717	722	421
45°	545	558	582	605	610	420
55°	406	424	455	479	484	364
65°	267	288	324	351	358	266
75°	136	162	204	231	238	144
85°	28	52	64	62	62	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	903.6	903.6	903.6	903.6	903.6
2.5°	904.4	904.4	900.3	904.4	905.2
5°	899.5	901.1	897.0	901.9	902.7
7.5°	894.5	894.5	892.1	897.0	897.9
10°	885.6	886.4	885.6	891.3	892.1
12.5°	874.2	875.7	876.6	882.3	883.1
15°	860.3	862.8	864.3	871.7	873.4
17.5°	844.7	847.2	851.2	859.4	861.1
20°	825.9	829.2	834.1	844.7	847.2
22.5°	805.6	808.8	817.0	826.7	830.9
25°	781.8	788.3	796.5	809.6	812.1
27.5°	758.1	763.8	774.5	788.3	791.7
30°	730.4	739.3	752.4	766.3	769.5
32.5°	703.4	712.3	727.9	742.7	746.7
35°	675.6	683.8	700.1	717.3	722.2
37.5°	643.7	654.4	672.4	689.5	694.4
40°	610.3	623.4	643.7	661.8	667.5
42.5°	578.4	592.3	612.7	632.3	638.8
45°	544.9	558.0	582.5	604.6	609.5
47.5°	510.6	525.3	551.4	573.5	581.6
50°	476.3	491.9	519.6	542.5	547.4
52.5°	442.0	458.3	487.7	512.2	514.7
55°	406.0	424.0	455.0	478.8	483.7
57.5°	373.4	388.9	422.4	446.9	452.6
60°	337.4	354.6	390.5	413.4	420.7
62.5°	303.1	321.1	358.7	381.5	388.0
65°	267.1	287.6	324.3	351.3	357.8
67.5°	236.1	255.7	294.9	321.1	327.6
70°	200.1	222.3	263.9	290.9	297.4
72.5°	169.1	191.9	233.7	259.8	269.6
75°	135.6	161.7	203.5	231.2	237.7
77.5°	103.0	133.2	175.6	196.9	196.9
80°	73.5	105.4	144.6	154.4	156.0
82.5°	48.2	79.2	107.0	106.2	106.2
85°	27.8	51.5	63.7	62.1	62.1
87.5°	10.6	21.3	22.8	22.8	22.0
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)