

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: P734128

Luminaire Tested: **24FCZ2-30HE-S-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734128  
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-CP250-3500K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

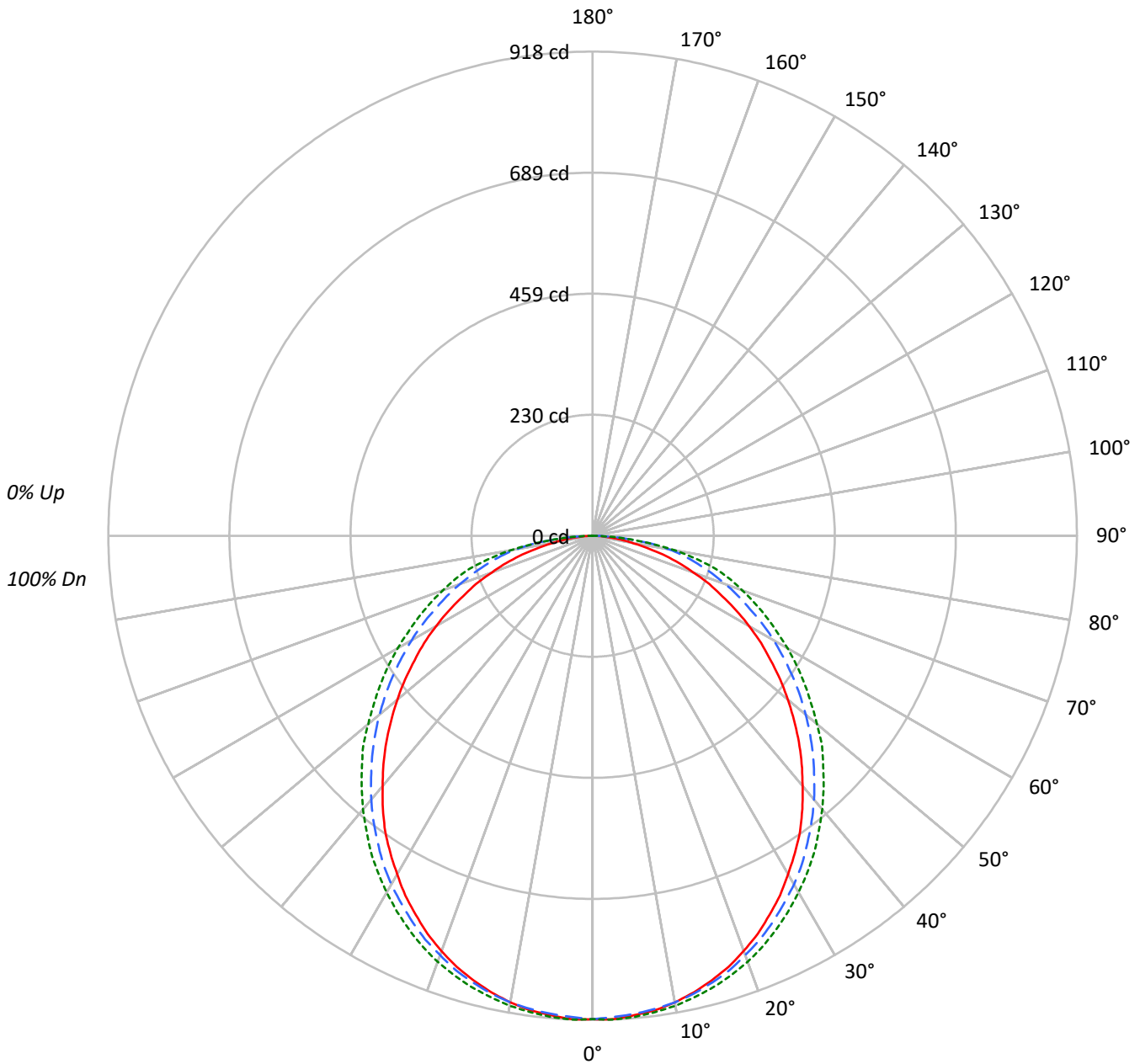
Lumens per Lamp: N/A  
Luminaire Lumens: 2609.0 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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				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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83				83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69				69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58				58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49				49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42				42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37				37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33				33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29				29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26				26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24				24

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

	0°	45°	90°
0°	1294	1294	1294
5°	1293	1289	1297
10°	1287	1287	1297
15°	1275	1281	1294
20°	1258	1271	1291
25°	1235	1258	1283
30°	1207	1244	1272
35°	1181	1224	1262
40°	1141	1203	1247
45°	1103	1179	1234
50°	1061	1157	1219
55°	1014	1136	1207
60°	966	1118	1204
65°	905	1099	1212
70°	838	1105	1245
75°	750	1125	1315
80°	606	1192	1287
85°	457	1046	1020



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.8	3.3
10°-20°	247.9	9.5
20°-30°	372.7	14.3
30°-40°	444.0	17.0
40°-50°	454.4	17.4
50°-60°	409.1	15.7
60°-70°	321.2	12.3
70°-80°	208.5	8.0
80°-90°	64.5	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°	707.4	27.1
0°-40°	1151.4	44.1
0°-60°	2014.8	77.2
0°-90°	2609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2609.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	912	914	910	915	916	87
15°	873	875	877	884	886	246
25°	793	800	808	821	824	365
35°	685	694	710	728	733	428
45°	553	566	591	613	618	426
55°	412	430	462	486	491	369
65°	271	292	329	356	363	270
75°	138	164	206	234	241	146
85°	28	52	65	63	63	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	916.6	916.6	916.6	916.6	916.6
2.5°	917.4	917.4	913.2	917.4	918.2
5°	912.4	914.1	909.9	914.9	915.7
7.5°	907.4	907.4	904.9	909.9	910.8
10°	898.3	899.1	898.3	904.1	904.9
12.5°	886.7	888.3	889.2	895.0	895.8
15°	872.7	875.2	876.8	884.3	885.9
17.5°	856.9	859.4	863.5	871.8	873.5
20°	837.8	841.1	846.1	856.9	859.4
22.5°	817.2	820.4	828.7	838.6	842.8
25°	793.1	799.7	808.0	821.2	823.7
27.5°	769.0	774.8	785.6	799.7	803.1
30°	740.9	750.0	763.2	777.3	780.6
32.5°	713.5	722.6	738.4	753.4	757.4
35°	685.4	693.6	710.2	727.6	732.6
37.5°	653.0	663.8	682.1	699.4	704.4
40°	619.1	632.3	653.0	671.3	677.1
42.5°	586.7	600.8	621.6	641.4	648.0
45°	552.8	566.0	590.9	613.3	618.3
47.5°	517.9	532.9	559.3	581.7	590.0
50°	483.2	498.9	527.1	550.3	555.3
52.5°	448.3	464.9	494.7	519.6	522.1
55°	411.9	430.1	461.6	485.7	490.7
57.5°	378.7	394.5	428.4	453.3	459.1
60°	342.3	359.7	396.1	419.4	426.7
62.5°	307.4	325.7	363.8	387.0	393.6
65°	271.0	291.8	329.0	356.4	362.9
67.5°	239.5	259.4	299.1	325.7	332.3
70°	203.0	225.5	267.7	295.0	301.6
72.5°	171.5	194.7	237.0	263.5	273.5
75°	137.6	164.0	206.4	234.5	241.1
77.5°	104.4	135.1	178.1	199.7	199.7
80°	74.6	106.9	146.7	156.7	158.3
82.5°	48.9	80.4	108.5	107.7	107.7
85°	28.2	52.2	64.6	63.0	63.0
87.5°	10.8	21.6	23.2	23.2	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)