

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: P733992

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733992
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: 24FCZ2-30-S-B2750-W2D-CA125-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

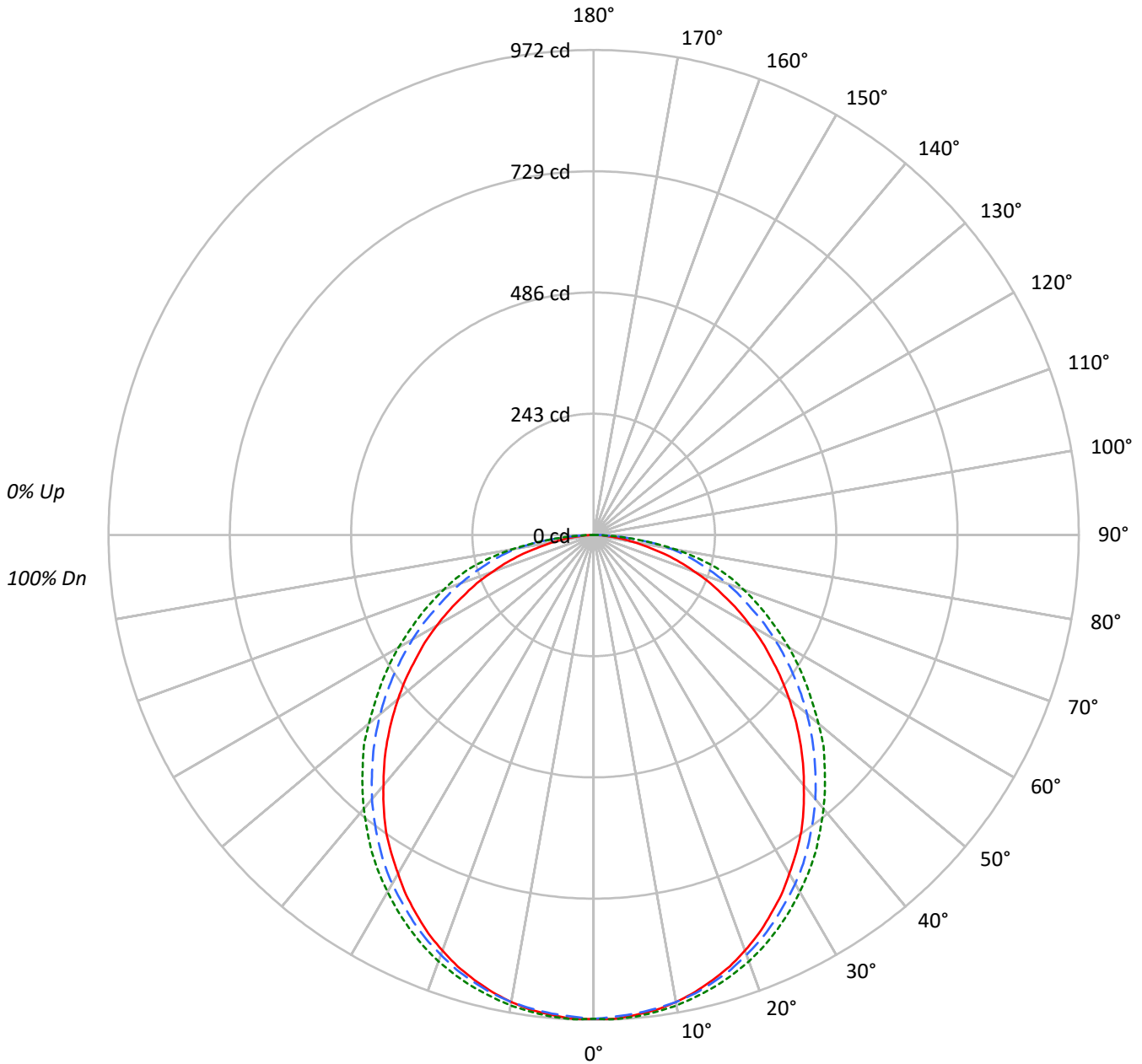
Lumens per Lamp: N/A
Luminaire Lumens: 2761.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (Ain): 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	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°	1369	1369	1369
5°	1368	1364	1373
10°	1362	1362	1372
15°	1349	1356	1370
20°	1332	1345	1366
25°	1307	1331	1357
30°	1278	1316	1346
35°	1250	1295	1336
40°	1207	1273	1320
45°	1168	1248	1306
50°	1123	1225	1290
55°	1073	1202	1278
60°	1022	1183	1275
65°	958	1163	1283
70°	886	1169	1317
75°	794	1191	1392
80°	641	1261	1361
85°	483	1108	1080



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	3.3
10°-20°	262.4	9.5
20°-30°	394.4	14.3
30°-40°	469.8	17.0
40°-50°	480.8	17.4
50°-60°	432.9	15.7
60°-70°	340.0	12.3
70°-80°	220.6	8.0
80°-90°	68.2	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°	748.6	27.1
0°-40°	1218.4	44.1
0°-60°	2132.2	77.2
0°-90°	2761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	966	967	963	968	969	92
15°	924	926	928	936	938	260
25°	839	846	855	869	872	387
35°	725	734	752	770	775	452
45°	585	599	625	649	654	451
55°	436	455	488	514	519	391
65°	287	309	348	377	384	285
75°	146	174	218	248	255	154
85°	30	55	68	67	67	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.0	970.0	970.0	970.0	970.0
2.5°	970.8	970.8	966.4	970.8	971.7
5°	965.6	967.4	962.9	968.2	969.1
7.5°	960.3	960.3	957.6	962.9	963.9
10°	950.7	951.5	950.7	956.8	957.6
12.5°	938.4	940.1	941.1	947.2	948.0
15°	923.5	926.2	927.8	935.8	937.6
17.5°	906.8	909.5	913.8	922.6	924.4
20°	886.6	890.1	895.4	906.8	909.5
22.5°	864.8	868.2	877.0	887.5	891.9
25°	839.3	846.3	855.0	869.1	871.7
27.5°	813.8	820.0	831.4	846.3	849.9
30°	784.0	793.6	807.7	822.6	826.1
32.5°	755.1	764.7	781.4	797.2	801.6
35°	725.3	734.1	751.6	770.0	775.3
37.5°	691.0	702.5	721.8	740.2	745.5
40°	655.1	669.2	691.0	710.4	716.5
42.5°	620.9	635.8	657.8	678.8	685.8
45°	585.0	599.0	625.3	649.0	654.3
47.5°	548.1	563.9	591.9	615.6	624.4
50°	511.3	528.0	557.8	582.3	587.6
52.5°	474.4	492.0	523.6	549.9	552.5
55°	435.9	455.2	488.5	514.0	519.2
57.5°	400.8	417.5	453.4	479.7	485.8
60°	362.2	380.6	419.2	443.8	451.6
62.5°	325.3	344.7	385.0	409.6	416.5
65°	286.8	308.8	348.2	377.1	384.1
67.5°	253.5	274.5	316.6	344.7	351.7
70°	214.8	238.6	283.3	312.2	319.2
72.5°	181.5	206.0	250.8	278.8	289.4
75°	145.6	173.6	218.4	248.2	255.2
77.5°	110.5	143.0	188.5	211.3	211.3
80°	78.9	113.2	155.2	165.8	167.5
82.5°	51.8	85.1	114.9	114.0	114.0
85°	29.8	55.3	68.4	66.7	66.7
87.5°	11.4	22.8	24.5	24.5	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)