

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: P733993

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733993
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-CA125-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

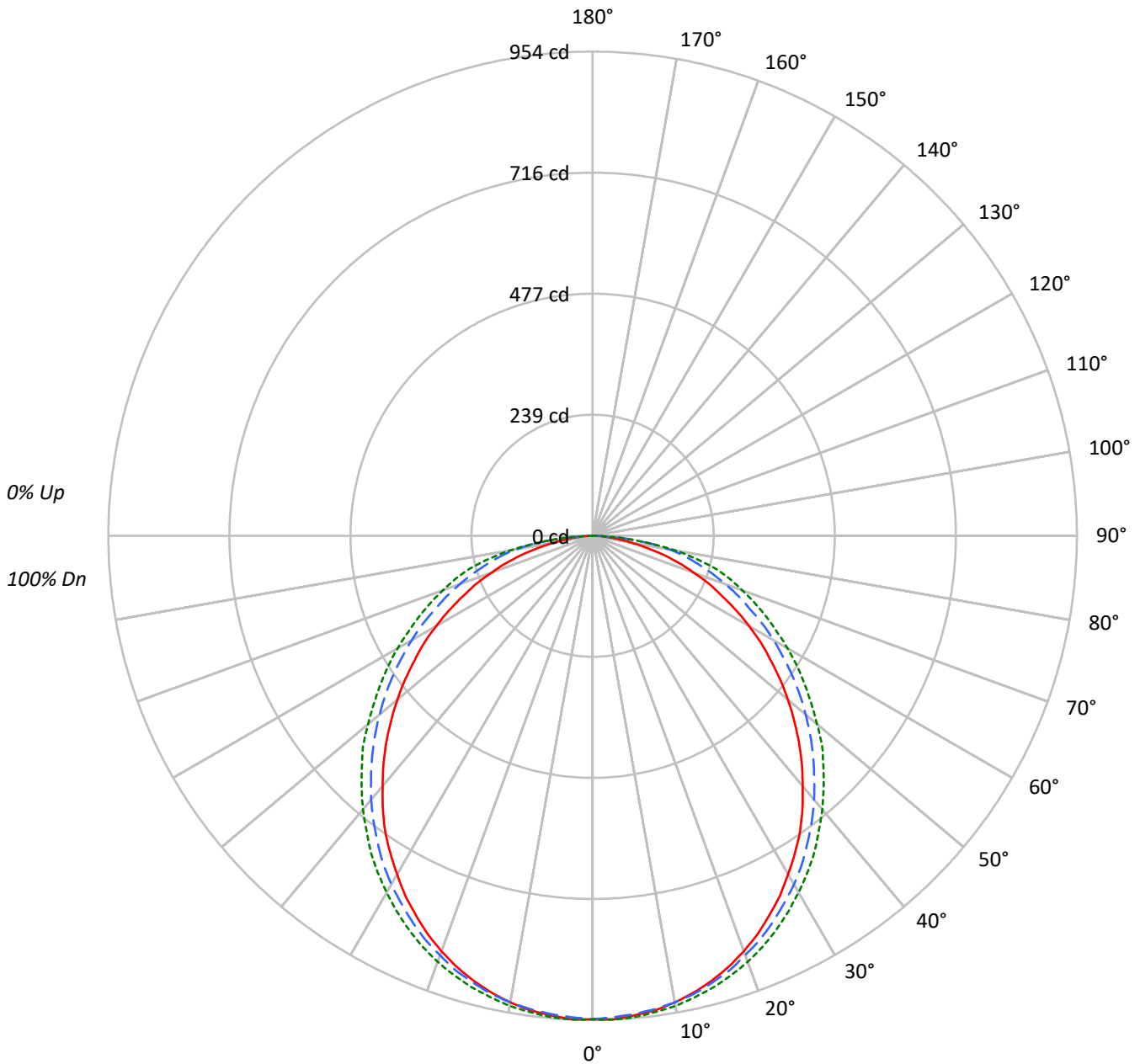
Lumens per Lamp: N/A
Luminaire Lumens: 2712.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (A_{in}): 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°	1345	1345	1345
5°	1344	1340	1349
10°	1338	1338	1348
15°	1325	1332	1346
20°	1308	1321	1342
25°	1284	1308	1333
30°	1255	1293	1322
35°	1227	1272	1312
40°	1186	1251	1297
45°	1147	1226	1283
50°	1103	1203	1267
55°	1053	1181	1255
60°	1004	1162	1252
65°	941	1142	1260
70°	871	1148	1294
75°	780	1170	1367
80°	630	1239	1337
85°	474	1088	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	3.3
10°-20°	257.7	9.5
20°-30°	387.4	14.3
30°-40°	461.5	17.0
40°-50°	472.3	17.4
50°-60°	425.2	15.7
60°-70°	333.9	12.3
70°-80°	216.7	8.0
80°-90°	67.0	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°	735.3	27.1
0°-40°	1196.8	44.1
0°-60°	2094.3	77.2
0°-90°	2712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	948	950	946	951	952	90
15°	907	910	911	919	921	256
25°	824	831	840	854	856	380
35°	712	721	738	756	762	444
45°	575	588	614	638	643	443
55°	428	447	480	505	510	384
65°	282	303	342	370	377	280
75°	143	170	214	244	251	151
85°	29	54	67	66	66	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.8	952.8	952.8	952.8	952.8
2.5°	953.6	953.6	949.3	953.6	954.4
5°	948.4	950.2	945.8	951.0	951.9
7.5°	943.2	943.2	940.6	945.8	946.8
10°	933.8	934.6	933.8	939.8	940.6
12.5°	921.8	923.4	924.3	930.4	931.2
15°	907.1	909.7	911.4	919.2	920.9
17.5°	890.7	893.3	897.6	906.2	908.0
20°	870.9	874.3	879.5	890.7	893.3
22.5°	849.4	852.8	861.5	871.7	876.1
25°	824.4	831.3	839.9	853.7	856.3
27.5°	799.4	805.4	816.6	831.3	834.8
30°	770.1	779.6	793.4	808.0	811.4
32.5°	741.7	751.1	767.5	783.1	787.3
35°	712.4	721.0	738.3	756.3	761.5
37.5°	678.8	690.0	709.0	727.0	732.2
40°	643.5	657.3	678.8	697.8	703.8
42.5°	609.9	624.5	646.1	666.7	673.6
45°	574.6	588.4	614.2	637.5	642.7
47.5°	538.4	553.9	581.4	604.7	613.3
50°	502.2	518.6	547.9	572.0	577.2
52.5°	466.0	483.2	514.3	540.1	542.7
55°	428.1	447.1	479.8	504.8	510.0
57.5°	393.7	410.1	445.4	471.2	477.2
60°	355.8	373.8	411.7	435.9	443.6
62.5°	319.6	338.6	378.2	402.3	409.1
65°	281.7	303.3	342.0	370.4	377.3
67.5°	249.0	269.6	311.0	338.6	345.4
70°	211.0	234.4	278.3	306.7	313.5
72.5°	178.3	202.4	246.4	273.9	284.3
75°	143.0	170.5	214.5	243.8	250.7
77.5°	108.6	140.4	185.2	207.6	207.6
80°	77.5	111.2	152.5	162.8	164.5
82.5°	50.9	83.6	112.8	112.0	112.0
85°	29.3	54.3	67.2	65.5	65.5
87.5°	11.2	22.4	24.1	24.1	23.2
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)