

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: P734113

Luminaire Tested: **24FCZ2-30HE-S-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734113
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-CA08-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

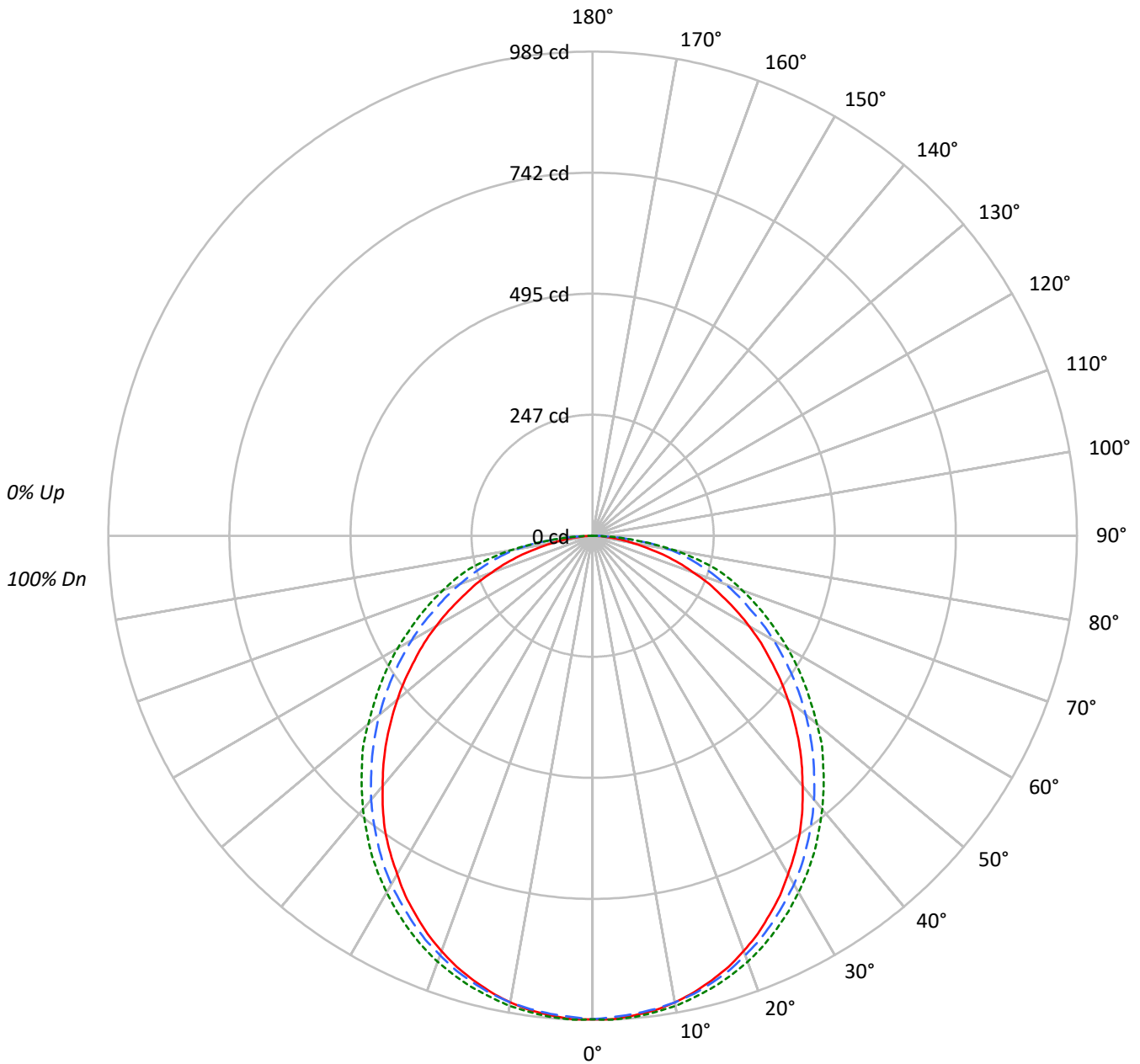
Lumens per Lamp: N/A
Luminaire Lumens: 2811.0 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
Input Voltage (V): NR
Input Current (A_{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°	1394	1394	1394
5°	1393	1389	1398
10°	1387	1387	1397
15°	1374	1380	1395
20°	1356	1369	1391
25°	1331	1356	1382
30°	1301	1340	1371
35°	1272	1318	1360
40°	1229	1296	1344
45°	1189	1271	1329
50°	1143	1247	1313
55°	1092	1224	1301
60°	1041	1205	1298
65°	975	1184	1306
70°	902	1190	1341
75°	808	1213	1417
80°	653	1284	1386
85°	491	1127	1100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	3.3
10°-20°	267.1	9.5
20°-30°	401.6	14.3
30°-40°	478.3	17.0
40°-50°	489.5	17.4
50°-60°	440.7	15.7
60°-70°	346.1	12.3
70°-80°	224.6	8.0
80°-90°	69.5	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°	762.2	27.1
0°-40°	1240.5	44.1
0°-60°	2170.8	77.2
0°-90°	2811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	983	985	980	986	987	93
15°	940	943	945	953	954	265
25°	854	862	870	885	888	394
35°	738	747	765	784	789	461
45°	596	610	637	661	666	459
55°	444	463	497	523	529	398
65°	292	314	354	384	391	291
75°	148	177	222	253	260	157
85°	30	56	70	68	68	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	987.6	987.6	987.6	987.6	987.6
2.5°	988.4	988.4	983.9	988.4	989.3
5°	983.1	984.9	980.4	985.7	986.6
7.5°	977.7	977.7	975.0	980.4	981.3
10°	967.9	968.7	967.9	974.1	975.0
12.5°	955.4	957.1	958.1	964.3	965.2
15°	940.2	942.9	944.6	952.7	954.5
17.5°	923.2	925.9	930.3	939.3	941.1
20°	902.7	906.2	911.6	923.2	925.9
22.5°	880.4	884.0	892.9	903.6	908.1
25°	854.5	861.6	870.5	884.8	887.5
27.5°	828.6	834.8	846.4	861.6	865.3
30°	798.2	808.0	822.3	837.5	841.0
32.5°	768.8	778.5	795.5	811.7	816.1
35°	738.4	747.3	765.2	783.9	789.3
37.5°	703.6	715.2	734.9	753.6	759.0
40°	667.0	681.3	703.6	723.2	729.5
42.5°	632.1	647.3	669.7	691.1	698.2
45°	595.6	609.9	636.6	660.7	666.1
47.5°	558.0	574.1	602.7	626.8	635.7
50°	520.6	537.6	567.9	592.9	598.2
52.5°	483.0	500.9	533.1	559.8	562.5
55°	443.8	463.4	497.3	523.3	528.6
57.5°	408.0	425.0	461.6	488.4	494.6
60°	368.8	387.5	426.8	451.8	459.8
62.5°	331.2	350.9	392.0	417.0	424.1
65°	292.0	314.3	354.5	383.9	391.0
67.5°	258.1	279.5	322.3	350.9	358.0
70°	218.7	242.9	288.4	317.9	325.0
72.5°	184.8	209.8	255.4	283.9	294.7
75°	148.2	176.8	222.4	252.7	259.8
77.5°	112.5	145.6	191.9	215.2	215.2
80°	80.4	115.2	158.0	168.8	170.5
82.5°	52.7	86.6	116.9	116.1	116.1
85°	30.3	56.3	69.6	67.9	67.9
87.5°	11.6	23.2	25.0	25.0	24.1
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)