

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: P733911

Luminaire Tested: **24FCZ2-30-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272053)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30-B2750-W2D-CA08-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

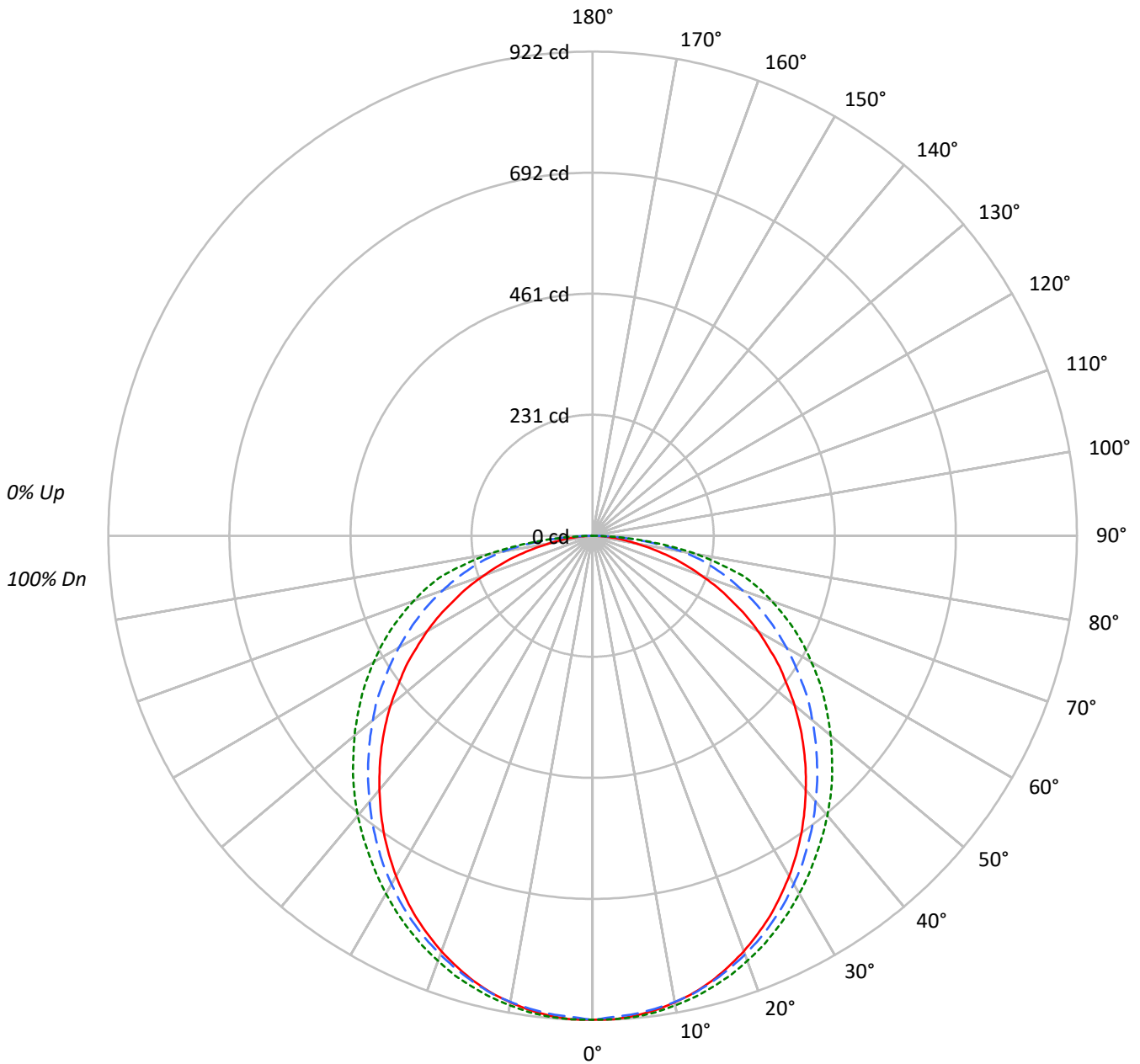
Lumens per Lamp: N/A
Luminaire Lumens: 2745.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36																			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25																			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1301	1301	1301
5°	1300	1295	1303
10°	1293	1292	1301
15°	1282	1285	1299
20°	1264	1274	1293
25°	1244	1263	1288
30°	1220	1248	1283
35°	1193	1233	1278
40°	1163	1217	1281
45°	1134	1205	1287
50°	1102	1199	1299
55°	1069	1197	1323
60°	1027	1202	1358
65°	973	1221	1416
70°	904	1251	1497
75°	824	1314	1623
80°	678	1414	1623
85°	518	1305	1394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	3.2
10°-20°	248.8	9.1
20°-30°	374.5	13.6
30°-40°	448.8	16.3
40°-50°	467.7	17.0
50°-60°	435.1	15.9
60°-70°	358.3	13.1
70°-80°	244.1	8.9
80°-90°	80.6	2.9
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°	710.5	25.9
0°-40°	1159.2	42.2
0°-60°	2062.0	75.1
0°-90°	2745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	918	918	914	919	920	87
15°	878	879	880	888	889	247
25°	799	802	811	824	827	368
35°	692	701	716	735	742	433
45°	568	580	604	634	645	438
55°	434	449	486	525	538	387
65°	291	316	366	409	424	289
75°	151	185	241	284	298	159
85°	32	62	81	86	86	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	921.7	921.7	921.7	921.7	921.7
2.5°	921.7	921.7	917.0	921.7	921.7
5°	917.9	917.9	914.3	918.9	919.8
7.5°	911.5	912.5	908.9	914.3	915.3
10°	902.3	903.3	901.5	907.0	907.9
12.5°	891.4	892.3	892.3	898.7	899.7
15°	877.6	878.6	879.5	887.8	888.7
17.5°	860.3	863.0	864.8	875.0	876.7
20°	841.9	844.7	848.3	859.3	861.2
22.5°	820.9	824.5	830.9	842.8	845.6
25°	798.9	802.5	810.8	824.5	827.3
27.5°	774.1	779.7	789.7	804.4	808.0
30°	748.5	753.9	765.9	781.4	787.0
32.5°	721.0	728.3	742.0	759.5	765.0
35°	692.5	700.8	715.5	734.7	742.0
37.5°	662.4	671.6	688.9	710.0	719.2
40°	631.3	642.2	660.5	685.3	695.3
42.5°	600.0	610.2	633.0	659.6	670.6
45°	568.0	579.9	603.8	633.9	645.0
47.5°	535.0	546.9	575.3	607.4	617.5
50°	502.1	514.0	546.0	579.9	591.8
52.5°	466.3	481.9	518.5	552.4	564.4
55°	434.3	448.9	486.5	524.9	537.7
57.5°	397.6	415.0	456.3	496.6	510.2
60°	363.7	382.0	426.0	467.2	481.0
62.5°	328.9	349.0	395.7	437.9	453.5
65°	291.3	316.0	365.5	408.6	424.1
67.5°	257.4	283.1	335.3	379.3	393.0
70°	219.0	250.1	303.2	347.3	362.8
72.5°	185.9	217.1	273.0	316.0	331.6
75°	151.2	185.1	240.9	284.0	297.7
77.5°	116.4	153.9	209.8	242.8	247.3
80°	83.4	122.8	174.0	193.3	199.7
82.5°	58.6	94.4	128.3	141.1	144.8
85°	32.0	62.3	80.6	86.1	86.1
87.5°	13.7	26.6	32.0	33.0	33.9
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)