

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: P734001

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734001
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-CP250-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

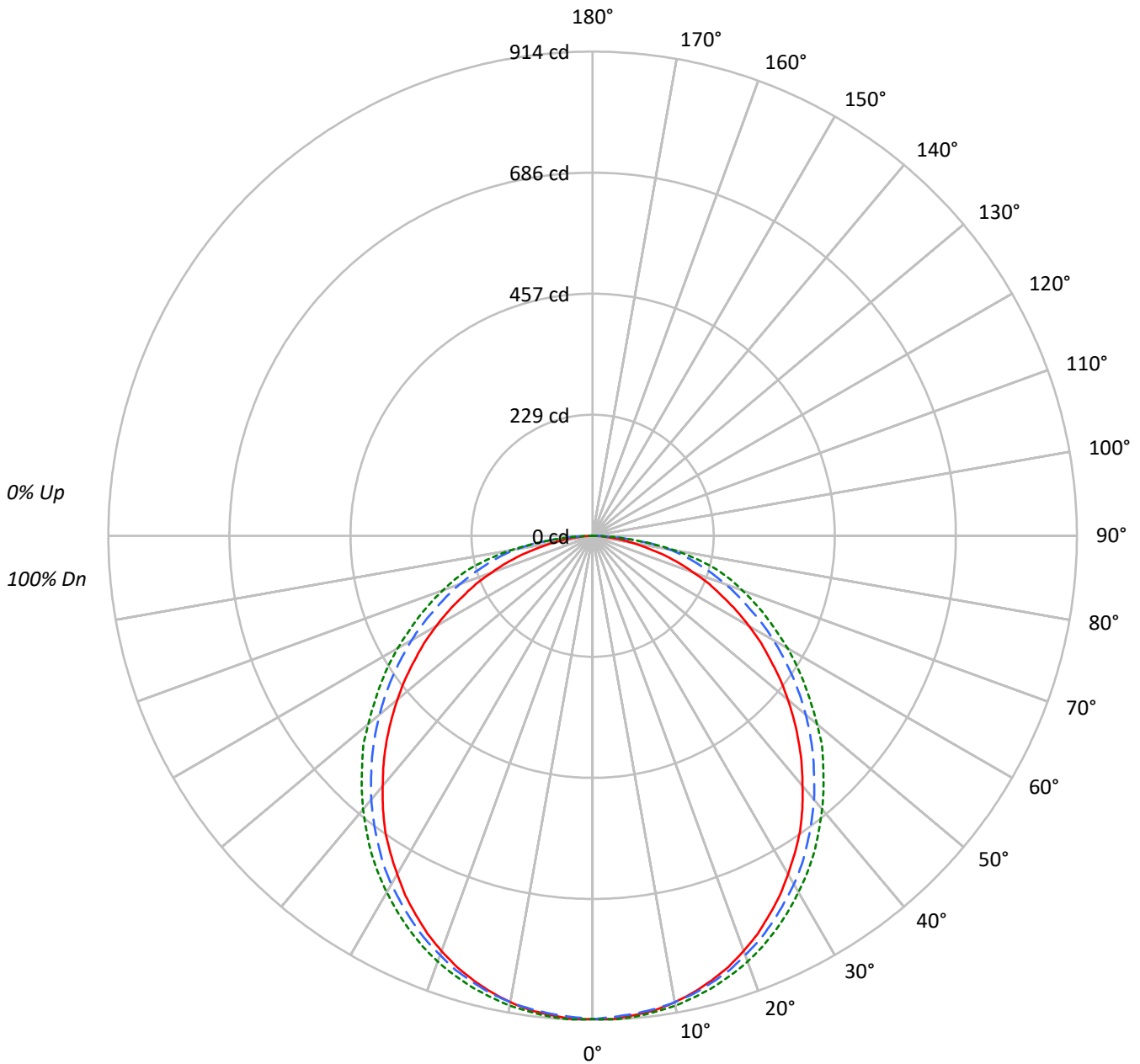
Lumens per Lamp: N/A
Luminaire Lumens: 2597.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	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°	1288	1288	1288
5°	1287	1283	1291
10°	1281	1281	1291
15°	1269	1275	1289
20°	1253	1265	1285
25°	1229	1252	1277
30°	1202	1238	1266
35°	1175	1218	1256
40°	1135	1198	1242
45°	1098	1174	1228
50°	1056	1152	1214
55°	1009	1131	1202
60°	962	1113	1199
65°	901	1094	1207
70°	834	1100	1239
75°	747	1120	1309
80°	603	1187	1280
85°	453	1041	1015



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	3.3
10°-20°	246.8	9.5
20°-30°	371.0	14.3
30°-40°	441.9	17.0
40°-50°	452.3	17.4
50°-60°	407.2	15.7
60°-70°	319.8	12.3
70°-80°	207.5	8.0
80°-90°	64.2	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°	704.2	27.1
0°-40°	1146.1	44.1
0°-60°	2005.5	77.2
0°-90°	2597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2597.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	908	910	906	911	912	86
15°	869	871	873	880	882	245
25°	789	796	804	818	820	364
35°	682	690	707	724	729	426
45°	550	563	588	610	615	424
55°	410	428	460	483	488	368
65°	270	290	328	355	361	269
75°	137	163	205	234	240	145
85°	28	52	64	63	63	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	912.4	912.4	912.4	912.4	912.4
2.5°	913.2	913.2	909.0	913.2	914.0
5°	908.2	909.9	905.7	910.7	911.5
7.5°	903.2	903.2	900.8	905.7	906.6
10°	894.2	895.0	894.2	900.0	900.8
12.5°	882.7	884.3	885.2	890.9	891.7
15°	868.7	871.1	872.7	880.2	881.9
17.5°	853.0	855.4	859.5	867.8	869.4
20°	834.0	837.2	842.2	853.0	855.4
22.5°	813.4	816.7	824.9	834.8	838.9
25°	789.4	796.0	804.3	817.5	820.0
27.5°	765.5	771.3	782.0	796.0	799.4
30°	737.5	746.5	759.7	773.7	777.0
32.5°	710.2	719.3	735.0	749.9	754.0
35°	682.2	690.5	706.9	724.2	729.2
37.5°	650.0	660.7	678.9	696.2	701.2
40°	616.2	629.4	650.0	668.2	674.0
42.5°	584.0	598.0	618.7	638.5	645.0
45°	550.2	563.4	588.2	610.4	615.4
47.5°	515.5	530.4	556.8	579.0	587.3
50°	480.9	496.6	524.7	547.7	552.7
52.5°	446.3	462.8	492.5	517.2	519.7
55°	410.0	428.2	459.5	483.4	488.4
57.5°	377.0	392.7	426.5	451.2	457.0
60°	340.7	358.0	394.3	417.4	424.8
62.5°	306.0	324.2	362.2	385.2	391.8
65°	269.7	290.4	327.5	354.7	361.3
67.5°	238.4	258.2	297.8	324.2	330.8
70°	202.1	224.4	266.5	293.7	300.3
72.5°	170.7	193.8	235.9	262.3	272.2
75°	137.0	163.3	205.4	233.5	240.0
77.5°	104.0	134.5	177.3	198.8	198.8
80°	74.2	106.4	146.0	155.9	157.5
82.5°	48.7	80.0	108.0	107.2	107.2
85°	28.0	52.0	64.3	62.7	62.7
87.5°	10.7	21.5	23.1	23.1	22.3
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)