

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: P734002

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734002
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-CP250-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

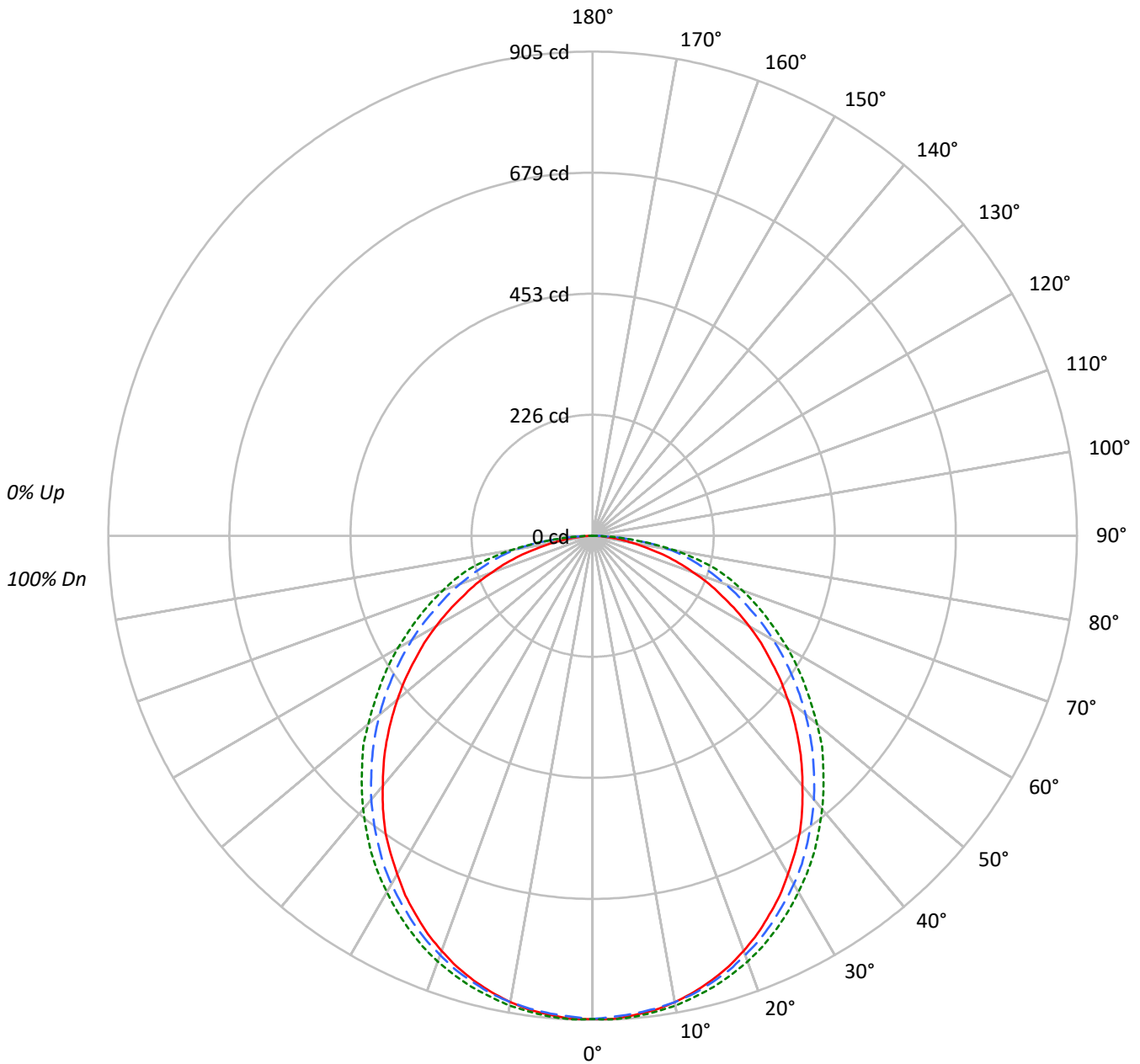
Lumens per Lamp: N/A
Luminaire Lumens: 2571.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1275	1275	1275
5°	1274	1270	1278
10°	1269	1269	1278
15°	1257	1262	1276
20°	1240	1252	1272
25°	1217	1240	1264
30°	1190	1226	1254
35°	1164	1206	1244
40°	1124	1186	1229
45°	1087	1162	1216
50°	1045	1140	1201
55°	999	1119	1190
60°	952	1102	1187
65°	892	1083	1195
70°	825	1089	1226
75°	739	1109	1296
80°	597	1174	1268
85°	449	1032	1006



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	3.3
10°-20°	244.3	9.5
20°-30°	367.3	14.3
30°-40°	437.5	17.0
40°-50°	447.7	17.4
50°-60°	403.1	15.7
60°-70°	316.6	12.3
70°-80°	205.5	8.0
80°-90°	63.5	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°	697.1	27.1
0°-40°	1134.6	44.1
0°-60°	1985.4	77.2
0°-90°	2571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	903	903	903	903	903	
5°	899	901	897	902	902	85
15°	860	862	864	871	873	242
25°	782	788	796	809	812	360
35°	675	684	700	717	722	421
45°	545	558	582	604	609	420
55°	406	424	455	479	484	364
65°	267	288	324	351	358	266
75°	136	162	203	231	238	143
85°	28	52	64	62	62	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	903.3	903.3	903.3	903.3	903.3
2.5°	904.0	904.0	899.9	904.0	904.8
5°	899.1	900.8	896.7	901.6	902.4
7.5°	894.2	894.2	891.7	896.7	897.5
10°	885.2	886.0	885.2	891.0	891.7
12.5°	873.8	875.4	876.3	882.0	882.8
15°	860.0	862.4	864.0	871.4	873.0
17.5°	844.4	846.9	850.9	859.1	860.7
20°	825.6	828.9	833.8	844.4	846.9
22.5°	805.3	808.5	816.7	826.4	830.5
25°	781.5	788.0	796.2	809.3	811.7
27.5°	757.8	763.5	774.2	788.0	791.4
30°	730.1	739.0	752.1	766.0	769.2
32.5°	703.1	712.1	727.6	742.4	746.4
35°	675.4	683.5	699.9	717.0	721.9
37.5°	643.5	654.1	672.1	689.2	694.2
40°	610.0	623.1	643.5	661.5	667.2
42.5°	578.2	592.0	612.5	632.1	638.6
45°	544.7	557.8	582.3	604.3	609.3
47.5°	510.4	525.1	551.2	573.2	581.4
50°	476.1	491.7	519.4	542.2	547.2
52.5°	441.8	458.1	487.5	512.0	514.5
55°	405.9	423.9	454.9	478.6	483.5
57.5°	373.2	388.8	422.2	446.7	452.4
60°	337.3	354.4	390.3	413.3	420.5
62.5°	303.0	321.0	358.5	381.4	387.9
65°	267.0	287.5	324.2	351.2	357.7
67.5°	236.0	255.6	294.8	321.0	327.5
70°	200.0	222.2	263.8	290.8	297.2
72.5°	169.0	191.9	233.6	259.7	269.5
75°	135.6	161.7	203.4	231.1	237.6
77.5°	102.9	133.1	175.5	196.8	196.8
80°	73.5	105.4	144.5	154.4	156.0
82.5°	48.2	79.2	107.0	106.2	106.2
85°	27.7	51.5	63.7	62.1	62.1
87.5°	10.6	21.3	22.8	22.8	22.0
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)