

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: P733914

Luminaire Tested: **24FCZ2-30-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P733914
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-CA08-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

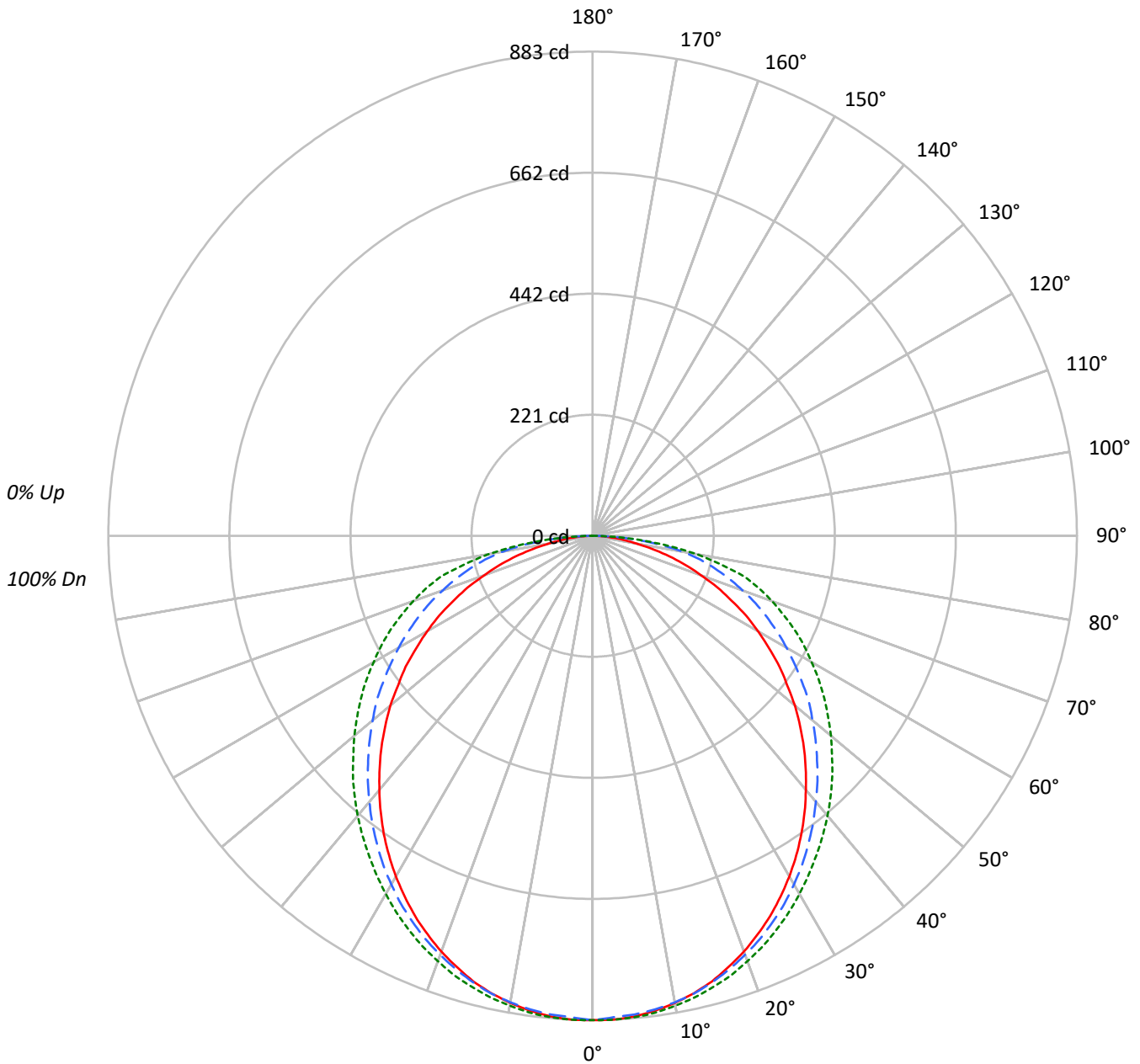
Lumens per Lamp: N/A
Luminaire Lumens: 2631.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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				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	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°	1247	1247	1247
5°	1246	1241	1249
10°	1239	1238	1247
15°	1229	1232	1244
20°	1212	1221	1240
25°	1192	1210	1235
30°	1169	1196	1229
35°	1144	1182	1225
40°	1115	1166	1228
45°	1087	1155	1234
50°	1057	1149	1246
55°	1024	1147	1268
60°	984	1152	1301
65°	932	1170	1358
70°	866	1199	1435
75°	790	1259	1556
80°	649	1356	1556
85°	497	1252	1336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	3.2
10°-20°	238.5	9.1
20°-30°	358.9	13.6
30°-40°	430.1	16.3
40°-50°	448.2	17.0
50°-60°	417.0	15.9
60°-70°	343.5	13.1
70°-80°	233.9	8.9
80°-90°	77.2	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°	681.0	25.9
0°-40°	1111.1	42.2
0°-60°	1976.4	75.1
0°-90°	2631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	883	883	883	883	883	
5°	880	880	876	881	882	84
15°	841	842	843	851	852	237
25°	766	769	777	790	793	352
35°	664	672	686	704	711	415
45°	544	556	579	608	618	420
55°	416	430	466	503	515	371
65°	279	303	350	392	406	277
75°	145	177	231	272	285	153
85°	31	60	77	82	82	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	883.4	883.4	883.4	883.4	883.4
2.5°	883.4	883.4	878.9	883.4	883.4
5°	879.8	879.8	876.3	880.7	881.6
7.5°	873.7	874.6	871.1	876.3	877.3
10°	864.9	865.8	864.0	869.3	870.2
12.5°	854.4	855.2	855.2	861.4	862.3
15°	841.2	842.1	843.0	850.9	851.7
17.5°	824.5	827.2	828.9	838.6	840.3
20°	807.0	809.6	813.1	823.6	825.4
22.5°	786.8	790.3	796.4	807.8	810.5
25°	765.7	769.2	777.1	790.3	792.9
27.5°	742.0	747.3	756.9	771.0	774.5
30°	717.4	722.6	734.1	749.0	754.3
32.5°	691.1	698.1	711.2	727.9	733.2
35°	663.8	671.7	685.8	704.2	711.2
37.5°	634.9	643.7	660.3	680.5	689.3
40°	605.0	615.5	633.1	656.8	666.4
42.5°	575.1	584.8	606.7	632.2	642.7
45°	544.4	555.8	578.7	607.6	618.2
47.5°	512.8	524.2	551.4	582.2	591.8
50°	481.2	492.7	523.3	555.8	567.3
52.5°	446.9	461.9	497.0	529.5	540.9
55°	416.2	430.2	466.3	503.1	515.4
57.5°	381.1	397.7	437.3	475.9	489.1
60°	348.6	366.2	408.3	447.8	461.0
62.5°	315.3	334.5	379.3	419.7	434.7
65°	279.2	302.9	350.3	391.6	406.5
67.5°	246.7	271.4	321.4	363.5	376.7
70°	209.9	239.7	290.6	332.8	347.8
72.5°	178.2	208.1	261.6	302.9	317.8
75°	144.9	177.4	230.9	272.2	285.3
77.5°	111.5	147.5	201.1	232.7	237.1
80°	79.9	117.7	166.8	185.3	191.5
82.5°	56.2	90.5	123.0	135.3	138.7
85°	30.7	59.7	77.3	82.5	82.5
87.5°	13.1	25.5	30.7	31.6	32.5
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)