

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: P733995

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733995
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-CA125-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

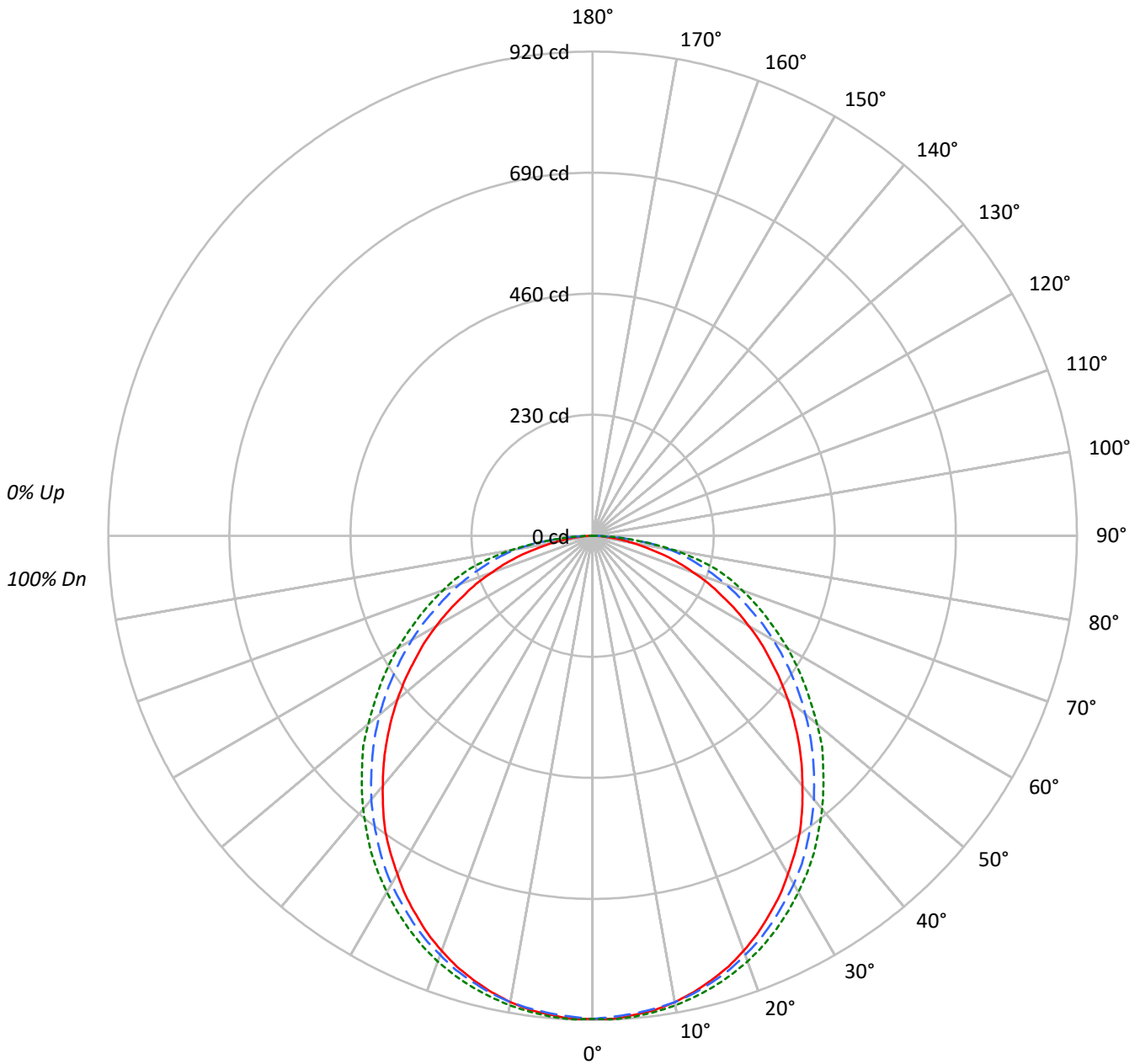
Lumens per Lamp: N/A
Luminaire Lumens: 2613.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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					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°	1296	1296	1296
5°	1295	1291	1299
10°	1289	1289	1299
15°	1277	1283	1296
20°	1260	1273	1293
25°	1237	1260	1285
30°	1209	1246	1274
35°	1183	1226	1264
40°	1142	1205	1249
45°	1105	1181	1236
50°	1062	1159	1221
55°	1015	1138	1209
60°	968	1120	1206
65°	906	1100	1214
70°	839	1106	1247
75°	751	1127	1317
80°	607	1194	1288
85°	457	1048	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	3.3
10°-20°	248.3	9.5
20°-30°	373.3	14.3
30°-40°	444.6	17.0
40°-50°	455.1	17.4
50°-60°	409.7	15.7
60°-70°	321.7	12.3
70°-80°	208.8	8.0
80°-90°	64.6	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°	708.5	27.1
0°-40°	1153.1	44.1
0°-60°	2017.9	77.2
0°-90°	2613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	914	916	911	916	917	87
15°	874	876	878	886	887	246
25°	794	801	809	822	825	366
35°	686	695	711	729	734	428
45°	554	567	592	614	619	427
55°	412	431	462	486	491	370
65°	271	292	330	357	364	270
75°	138	164	207	235	242	146
85°	28	52	65	63	63	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.0	918.0	918.0	918.0	<i>918.0</i>
2.5°	<i>918.8</i>	<i>918.8</i>	<i>914.6</i>	<i>918.8</i>	<i>919.6</i>
5°	913.8	915.5	911.3	916.3	<i>917.1</i>
7.5°	908.8	908.8	906.3	911.3	<i>912.2</i>
10°	899.7	900.5	899.7	905.5	<i>906.3</i>
12.5°	888.1	889.7	890.6	896.4	<i>897.2</i>
15°	874.0	876.5	878.1	885.6	<i>887.3</i>
17.5°	858.2	860.7	864.8	873.1	<i>874.8</i>
20°	839.1	842.4	847.4	858.2	<i>860.7</i>
22.5°	818.4	821.7	830.0	839.9	<i>844.1</i>
25°	794.3	800.9	809.2	822.5	<i>825.0</i>
27.5°	770.2	776.0	786.8	800.9	<i>804.3</i>
30°	742.0	751.1	764.4	778.5	<i>781.8</i>
32.5°	714.6	723.7	739.5	754.5	<i>758.6</i>
35°	686.4	694.7	711.3	728.7	<i>733.7</i>
37.5°	654.0	664.8	683.1	700.5	<i>705.5</i>
40°	620.0	633.3	654.0	672.3	<i>678.1</i>
42.5°	587.6	601.7	622.5	642.4	<i>649.0</i>
45°	553.6	566.9	591.8	614.2	<i>619.2</i>
47.5°	518.7	533.7	560.2	582.6	<i>590.9</i>
50°	483.9	499.7	527.9	551.1	<i>556.1</i>
52.5°	449.0	465.6	495.5	520.4	<i>522.9</i>
55°	412.5	430.8	462.3	486.4	<i>491.4</i>
57.5°	379.3	395.1	429.1	454.0	<i>459.8</i>
60°	342.8	360.2	396.7	420.0	<i>427.4</i>
62.5°	307.9	326.2	364.4	387.6	<i>394.2</i>
65°	271.4	292.2	329.5	356.9	<i>363.5</i>
67.5°	239.9	259.8	299.6	326.2	<i>332.8</i>
70°	203.3	225.8	268.1	295.5	<i>302.1</i>
72.5°	171.8	195.0	237.4	263.9	<i>273.9</i>
75°	137.8	164.3	206.7	234.9	<i>241.5</i>
77.5°	104.6	135.3	178.4	200.0	<i>200.0</i>
80°	74.7	107.1	146.9	156.9	<i>158.5</i>
82.5°	49.0	80.5	108.7	107.9	<i>107.9</i>
85°	28.2	52.3	64.7	63.1	<i>63.1</i>
87.5°	10.8	21.6	23.2	23.2	<i>22.4</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)