

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: P733919

Luminaire Tested: **24FCZ2-30-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733919
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-CA125-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

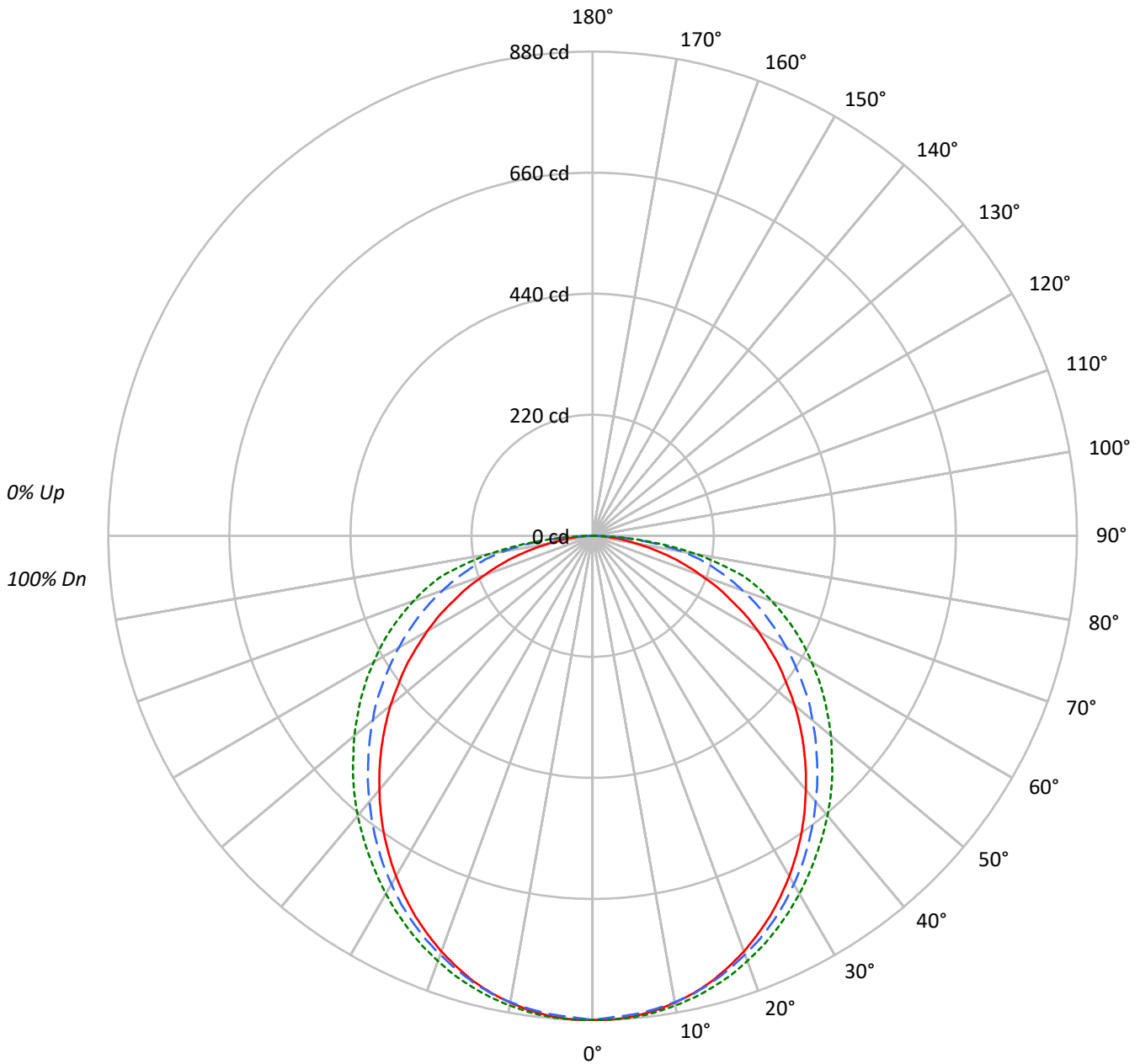
Lumens per Lamp: N/A
Luminaire Lumens: 2621.0 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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				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°	1242	1242	1242
5°	1242	1237	1244
10°	1235	1233	1242
15°	1224	1227	1240
20°	1207	1217	1235
25°	1188	1206	1230
30°	1165	1192	1225
35°	1139	1177	1221
40°	1110	1162	1223
45°	1082	1151	1229
50°	1053	1145	1241
55°	1020	1143	1263
60°	980	1148	1296
65°	929	1165	1353
70°	863	1195	1429
75°	787	1255	1550
80°	647	1351	1550
85°	496	1247	1331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	3.2
10°-20°	237.6	9.1
20°-30°	357.6	13.6
30°-40°	428.5	16.3
40°-50°	446.5	17.0
50°-60°	415.4	15.9
60°-70°	342.2	13.1
70°-80°	233.0	8.9
80°-90°	76.9	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°	678.4	25.9
0°-40°	1106.9	42.2
0°-60°	1968.9	75.1
0°-90°	2621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	876	876	873	877	878	83
15°	838	839	840	848	848	236
25°	763	766	774	787	790	351
35°	661	669	683	702	708	413
45°	542	554	576	605	616	418
55°	415	429	464	501	513	370
65°	278	302	349	390	405	276
75°	144	177	230	271	284	152
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°	880.0	880.0	880.0	880.0	880.0
2.5°	880.0	880.0	875.6	880.0	880.0
5°	876.4	876.4	873.0	877.4	878.2
7.5°	870.3	871.3	867.8	873.0	873.9
10°	861.6	862.5	860.7	866.0	866.9
12.5°	851.1	852.0	852.0	858.1	859.1
15°	838.0	838.9	839.8	847.7	848.5
17.5°	821.4	824.0	825.7	835.4	837.1
20°	803.9	806.5	810.0	820.5	822.3
22.5°	783.8	787.3	793.4	804.8	807.4
25°	762.8	766.3	774.2	787.3	789.9
27.5°	739.2	744.4	754.0	768.1	771.5
30°	714.7	719.9	731.3	746.1	751.4
32.5°	688.5	695.4	708.5	725.2	730.4
35°	661.3	669.2	683.2	701.5	708.5
37.5°	632.5	641.2	657.8	677.9	686.7
40°	602.7	613.2	630.7	654.3	663.9
42.5°	572.9	582.6	604.4	629.8	640.3
45°	542.3	553.7	576.5	605.3	615.8
47.5°	510.8	522.2	549.3	580.0	589.6
50°	479.4	490.8	521.4	553.7	565.1
52.5°	445.2	460.1	495.1	527.5	538.9
55°	414.7	428.6	464.5	501.2	513.4
57.5°	379.7	396.2	435.6	474.1	487.2
60°	347.3	364.8	406.8	446.1	459.3
62.5°	314.1	333.3	377.9	418.1	433.0
65°	278.1	301.7	349.0	390.1	405.0
67.5°	245.8	270.3	320.2	362.2	375.2
70°	209.1	238.8	289.5	331.6	346.4
72.5°	177.5	207.3	260.6	301.7	316.6
75°	144.3	176.7	230.1	271.2	284.2
77.5°	111.1	147.0	200.3	231.8	236.2
80°	79.6	117.2	166.2	184.6	190.7
82.5°	56.0	90.1	122.5	134.7	138.2
85°	30.6	59.5	77.0	82.2	82.2
87.5°	13.1	25.4	30.6	31.5	32.4
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)