

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: P733929

Luminaire Tested: **24FCZ2-30-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P733929
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-CP250-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

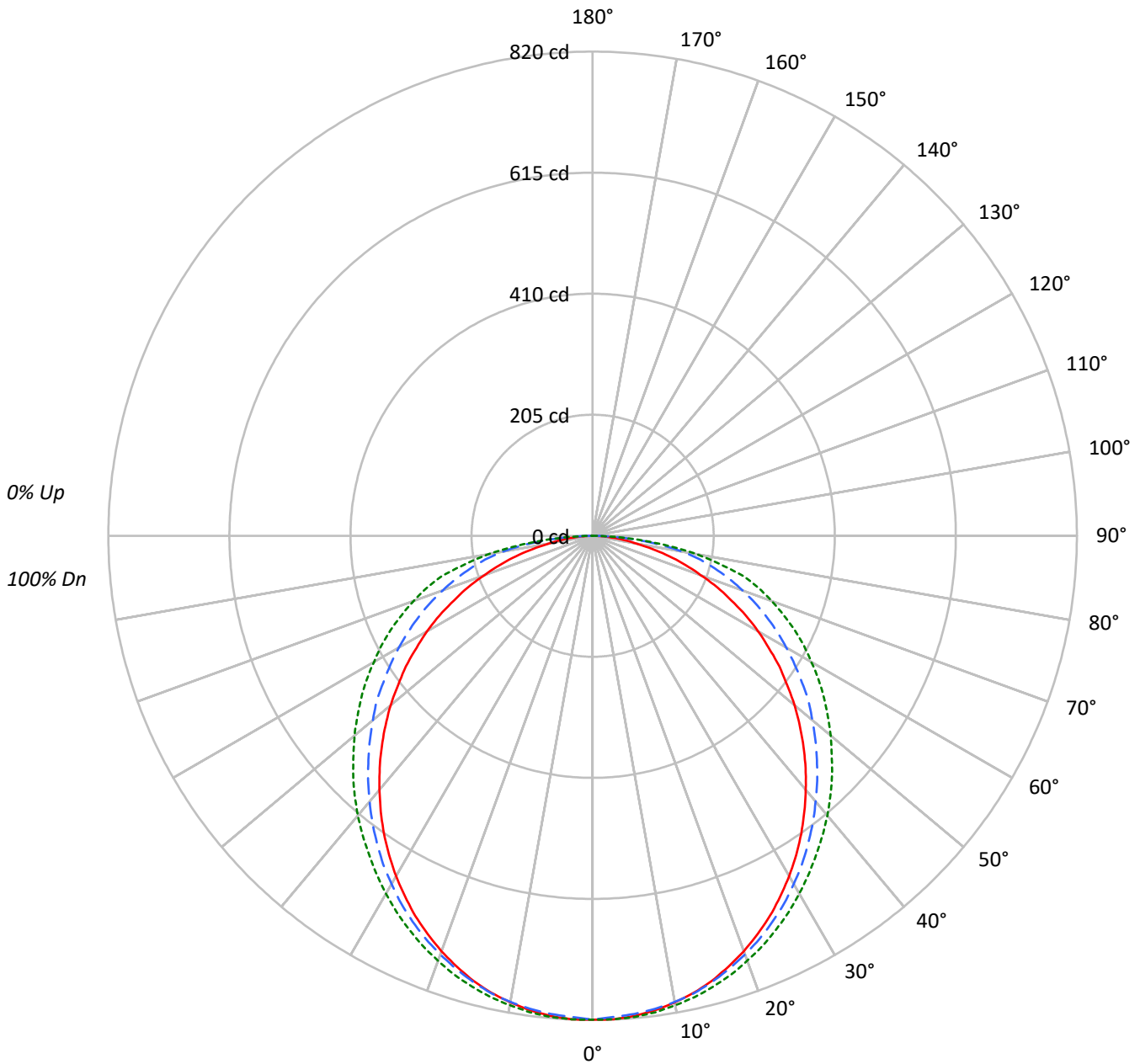
Lumens per Lamp: N/A
Luminaire Lumens: 2441.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1157	1157	1157
5°	1156	1152	1159
10°	1150	1149	1157
15°	1140	1143	1155
20°	1124	1133	1150
25°	1106	1123	1146
30°	1085	1110	1140
35°	1061	1096	1137
40°	1034	1082	1139
45°	1008	1072	1145
50°	980	1066	1156
55°	950	1064	1177
60°	913	1069	1207
65°	865	1085	1259
70°	803	1112	1332
75°	733	1169	1443
80°	602	1257	1443
85°	462	1161	1240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	3.2
10°-20°	221.3	9.1
20°-30°	333.0	13.6
30°-40°	399.1	16.3
40°-50°	415.9	17.0
50°-60°	386.9	15.9
60°-70°	318.7	13.1
70°-80°	217.0	8.9
80°-90°	71.7	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°	631.8	25.9
0°-40°	1030.9	42.2
0°-60°	1833.6	75.1
0°-90°	2441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2441.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	816	816	813	817	818	77
15°	780	781	782	790	790	220
25°	710	714	721	733	736	327
35°	616	623	636	653	660	385
45°	505	516	537	564	574	390
55°	386	399	433	467	478	344
65°	259	281	325	363	377	257
75°	134	165	214	252	265	142
85°	28	55	72	77	77	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	819.6	819.6	819.6	819.6	819.6
2.5°	819.6	819.6	815.5	819.6	819.6
5°	816.3	816.3	813.0	817.1	817.9
7.5°	810.6	811.4	808.2	813.0	813.9
10°	802.4	803.3	801.6	806.5	807.3
12.5°	792.7	793.5	793.5	799.2	800.1
15°	780.4	781.3	782.1	789.5	790.2
17.5°	765.0	767.5	769.0	778.1	779.6
20°	748.7	751.2	754.4	764.1	765.8
22.5°	729.9	733.2	738.9	749.5	751.9
25°	710.4	713.6	721.0	733.2	735.6
27.5°	688.4	693.3	702.3	715.3	718.6
30°	665.6	670.4	681.0	694.9	699.8
32.5°	641.2	647.7	659.8	675.4	680.3
35°	615.9	623.2	636.3	653.4	659.8
37.5°	589.0	597.2	612.6	631.4	639.5
40°	561.4	571.1	587.4	609.4	618.3
42.5°	533.6	542.6	562.9	586.6	596.3
45°	505.1	515.7	536.9	563.7	573.5
47.5°	475.7	486.3	511.6	540.1	549.1
50°	446.5	457.1	485.6	515.7	526.3
52.5°	414.7	428.5	461.1	491.2	501.9
55°	386.2	399.1	432.6	466.8	478.2
57.5°	353.6	369.0	405.7	441.6	453.7
60°	323.4	339.7	378.8	415.4	427.7
62.5°	292.5	310.4	351.9	389.4	403.3
65°	259.0	281.0	325.0	363.3	377.1
67.5°	228.9	251.8	298.2	337.3	349.5
70°	194.7	222.4	269.6	308.8	322.7
72.5°	165.4	193.0	242.7	281.0	294.9
75°	134.4	164.6	214.3	252.5	264.7
77.5°	103.5	136.9	186.6	215.9	219.9
80°	74.1	109.2	154.7	171.9	177.6
82.5°	52.1	84.0	114.1	125.5	128.7
85°	28.5	55.4	71.7	76.6	76.6
87.5°	12.2	23.7	28.5	29.4	30.1
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)