

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: P733920

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733920
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-CA125-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

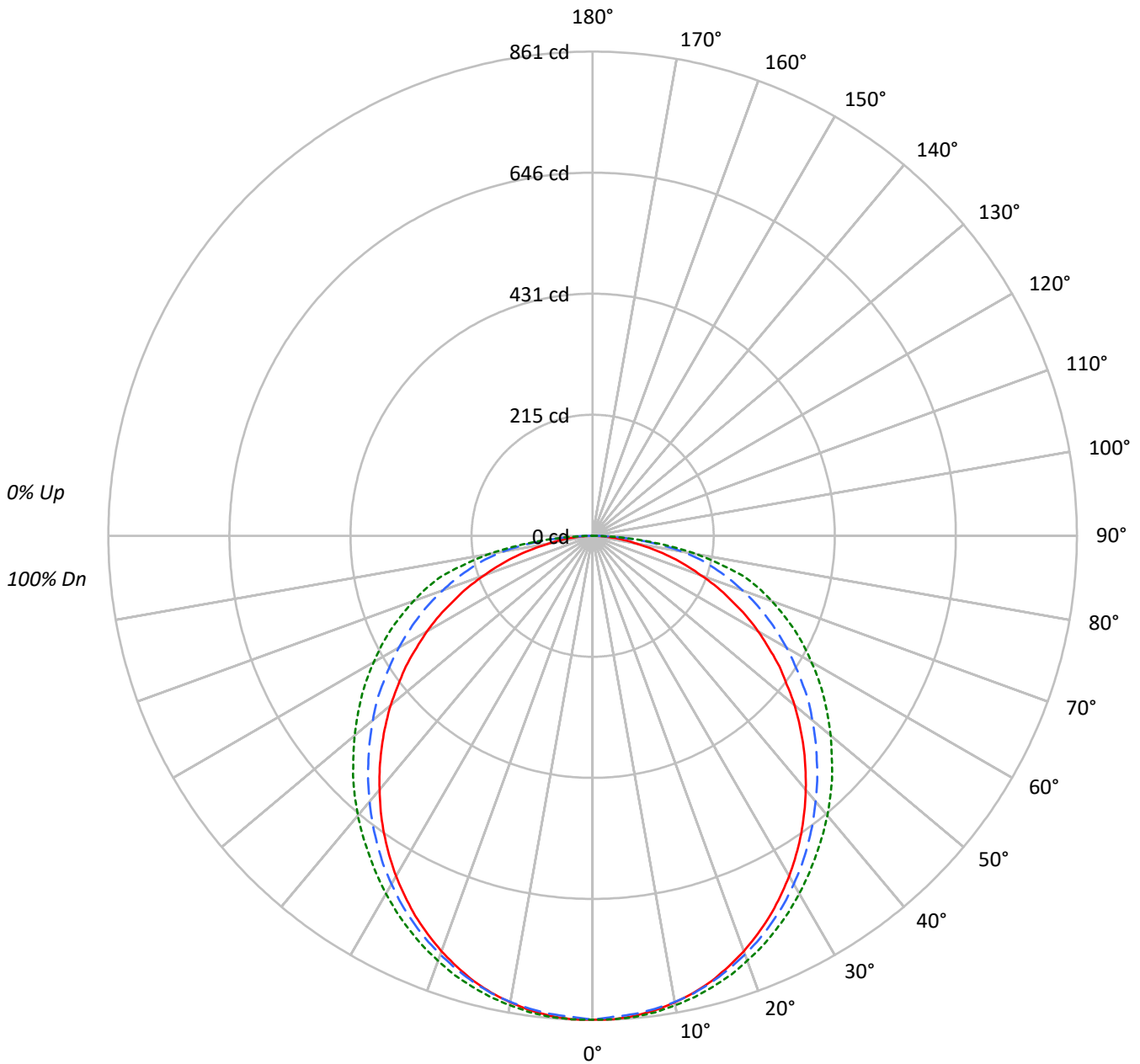
Lumens per Lamp: N/A
Luminaire Lumens: 2563.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	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°	1215	1215	1215
5°	1214	1209	1217
10°	1207	1206	1215
15°	1197	1200	1212
20°	1181	1190	1208
25°	1162	1179	1203
30°	1139	1165	1197
35°	1114	1151	1194
40°	1086	1136	1196
45°	1058	1125	1202
50°	1029	1119	1213
55°	998	1118	1235
60°	959	1123	1268
65°	908	1140	1322
70°	843	1168	1398
75°	769	1227	1516
80°	632	1321	1516
85°	484	1219	1302



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	3.2
10°-20°	232.3	9.1
20°-30°	349.6	13.6
30°-40°	419.0	16.3
40°-50°	436.6	17.0
50°-60°	406.2	15.9
60°-70°	334.6	13.1
70°-80°	227.9	8.9
80°-90°	75.2	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°	663.4	25.9
0°-40°	1082.4	42.2
0°-60°	1925.3	75.1
0°-90°	2563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	857	857	854	858	859	81
15°	819	820	821	829	830	231
25°	746	749	757	770	772	343
35°	647	654	668	686	693	404
45°	530	542	564	592	602	409
55°	406	419	454	490	502	361
65°	272	295	341	382	396	270
75°	141	173	225	265	278	149
85°	30	58	75	80	80	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	860.6	860.6	860.6	860.6	860.6
2.5°	860.6	860.6	856.2	860.6	860.6
5°	857.1	857.1	853.7	858.0	858.8
7.5°	851.1	852.0	848.6	853.7	854.6
10°	842.5	843.4	841.7	846.8	847.7
12.5°	832.3	833.1	833.1	839.1	840.0
15°	819.4	820.3	821.2	828.9	829.7
17.5°	803.2	805.8	807.5	816.9	818.6
20°	786.1	788.7	792.1	802.3	804.1
22.5°	766.4	769.8	775.8	786.9	789.5
25°	745.9	749.3	757.0	769.8	772.4
27.5°	722.8	728.0	737.4	751.1	754.5
30°	698.9	704.0	715.1	729.6	734.8
32.5°	673.2	680.0	692.8	709.1	714.3
35°	646.6	654.4	668.1	686.0	692.8
37.5°	618.5	627.0	643.2	662.9	671.5
40°	589.4	599.6	616.7	639.8	649.2
42.5°	560.2	569.7	591.1	615.9	626.1
45°	530.3	541.5	563.7	591.9	602.2
47.5°	499.5	510.6	537.1	567.1	576.5
50°	468.8	479.9	509.8	541.5	552.6
52.5°	435.4	449.9	484.1	515.8	526.9
55°	405.5	419.1	454.2	490.1	502.1
57.5°	371.3	387.4	426.0	463.6	476.4
60°	339.6	356.7	397.8	436.2	449.1
62.5°	307.1	325.9	369.5	408.9	423.4
65°	272.0	295.1	341.3	381.5	396.0
67.5°	240.3	264.3	313.1	354.1	366.9
70°	204.4	233.5	283.1	324.2	338.8
72.5°	173.6	202.7	254.9	295.1	309.6
75°	141.1	172.8	225.0	265.2	278.0
77.5°	108.7	143.7	195.9	226.7	230.9
80°	77.8	114.6	162.5	180.5	186.5
82.5°	54.7	88.1	119.8	131.8	135.2
85°	29.9	58.1	75.3	80.4	80.4
87.5°	12.8	24.8	29.9	30.8	31.7
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)