

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: P733918

Luminaire Tested: **24FCZ2-30-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733918
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-CA125-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

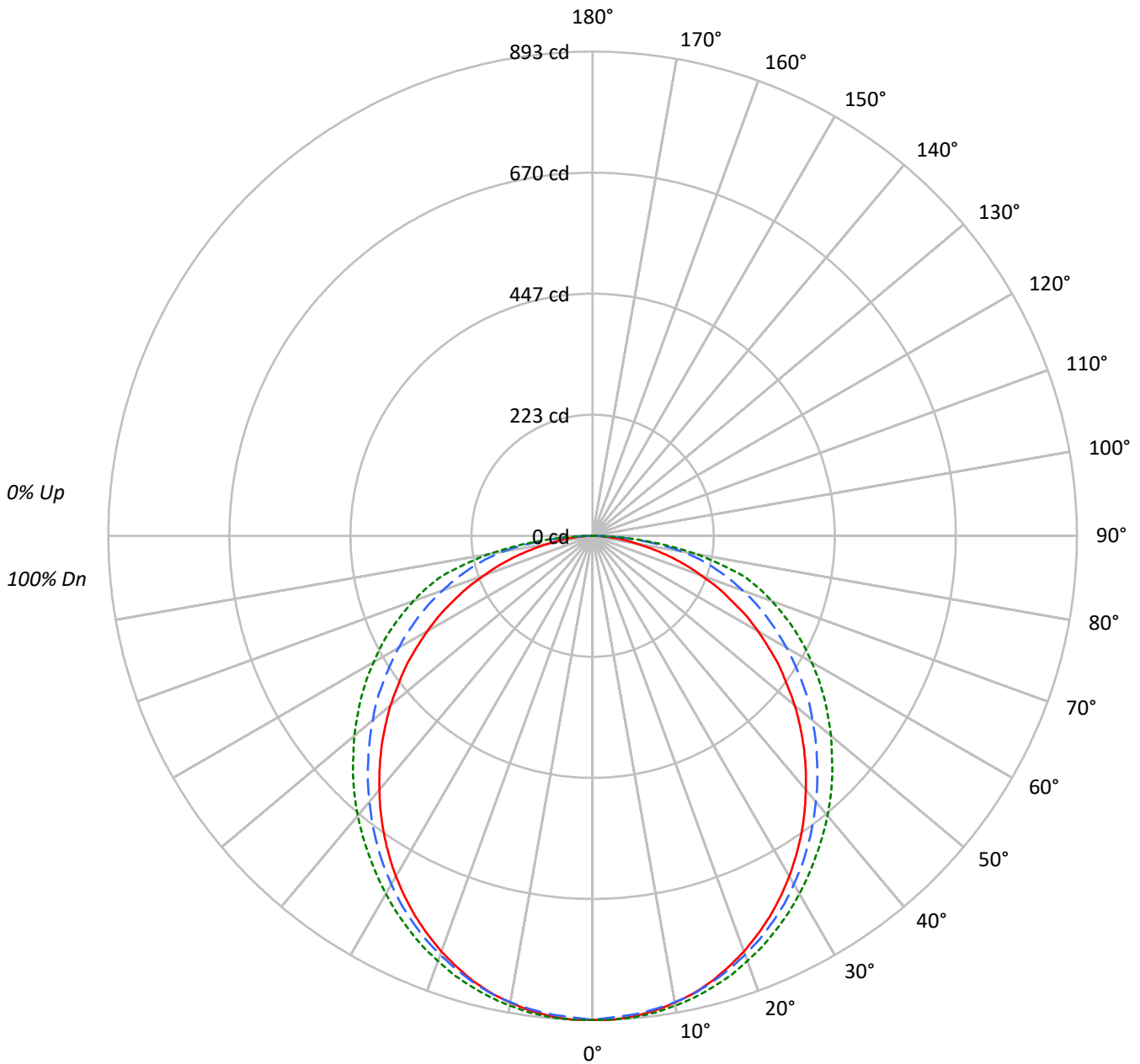
Lumens per Lamp: N/A
Luminaire Lumens: 2660.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1260	1260	1260
5°	1260	1255	1263
10°	1253	1252	1261
15°	1243	1245	1258
20°	1225	1235	1253
25°	1205	1224	1248
30°	1182	1210	1243
35°	1156	1195	1239
40°	1127	1179	1241
45°	1099	1168	1247
50°	1068	1162	1259
55°	1035	1160	1282
60°	995	1165	1316
65°	943	1183	1373
70°	876	1212	1451
75°	799	1273	1573
80°	657	1370	1573
85°	502	1265	1352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	3.2
10°-20°	241.1	9.1
20°-30°	362.9	13.6
30°-40°	434.9	16.3
40°-50°	453.2	17.0
50°-60°	421.6	15.9
60°-70°	347.3	13.1
70°-80°	236.5	8.9
80°-90°	78.1	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°	688.5	25.9
0°-40°	1123.4	42.2
0°-60°	1998.2	75.1
0°-90°	2660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	893	893	893	893	893	
5°	890	890	886	890	891	84
15°	850	851	852	860	861	240
25°	774	778	786	799	802	356
35°	671	679	693	712	719	420
45°	550	562	585	614	625	424
55°	421	435	471	509	521	375
65°	282	306	354	396	411	280
75°	146	179	234	275	288	154
85°	31	60	78	84	84	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	893.1	893.1	893.1	893.1	893.1
2.5°	893.1	893.1	888.6	893.1	893.1
5°	889.5	889.5	886.0	890.5	891.3
7.5°	883.3	884.2	880.7	886.0	886.9
10°	874.4	875.4	873.5	878.9	879.8
12.5°	863.8	864.7	864.7	870.9	871.8
15°	850.4	851.4	852.3	860.3	861.1
17.5°	833.6	836.3	838.0	847.9	849.6
20°	815.9	818.5	822.1	832.7	834.5
22.5°	795.4	799.0	805.2	816.7	819.4
25°	774.1	777.7	785.7	799.0	801.6
27.5°	750.2	755.5	765.3	779.5	783.0
30°	725.4	730.6	742.2	757.2	762.6
32.5°	698.7	705.8	719.0	735.9	741.3
35°	671.1	679.1	693.4	712.0	719.0
37.5°	641.9	650.8	667.6	688.0	696.9
40°	611.7	622.3	640.1	664.0	673.8
42.5°	581.4	591.3	613.4	639.2	649.8
45°	550.4	562.0	585.1	614.3	625.0
47.5°	518.4	530.0	557.5	588.6	598.3
50°	486.5	498.1	529.1	562.0	573.5
52.5°	451.9	466.9	502.5	535.3	546.9
55°	420.8	435.0	471.4	508.7	521.1
57.5°	385.3	402.1	442.1	481.2	494.4
60°	352.5	370.2	412.8	452.7	466.1
62.5°	318.8	338.2	383.5	424.4	439.4
65°	282.3	306.2	354.2	395.9	411.0
67.5°	249.4	274.3	325.0	367.5	380.8
70°	212.2	242.4	293.8	336.5	351.6
72.5°	180.2	210.4	264.5	306.2	321.3
75°	146.5	179.3	233.5	275.2	288.5
77.5°	112.8	149.2	203.3	235.3	239.7
80°	80.8	119.0	168.6	187.4	193.6
82.5°	56.8	91.5	124.3	136.7	140.3
85°	31.0	60.3	78.1	83.5	83.5
87.5°	13.3	25.8	31.0	32.0	32.8
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)