

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: P734177

Luminaire Tested: **24FCZ2-35-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734177
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: 24FCZ2-35-B2750-W2D-CP250-3000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

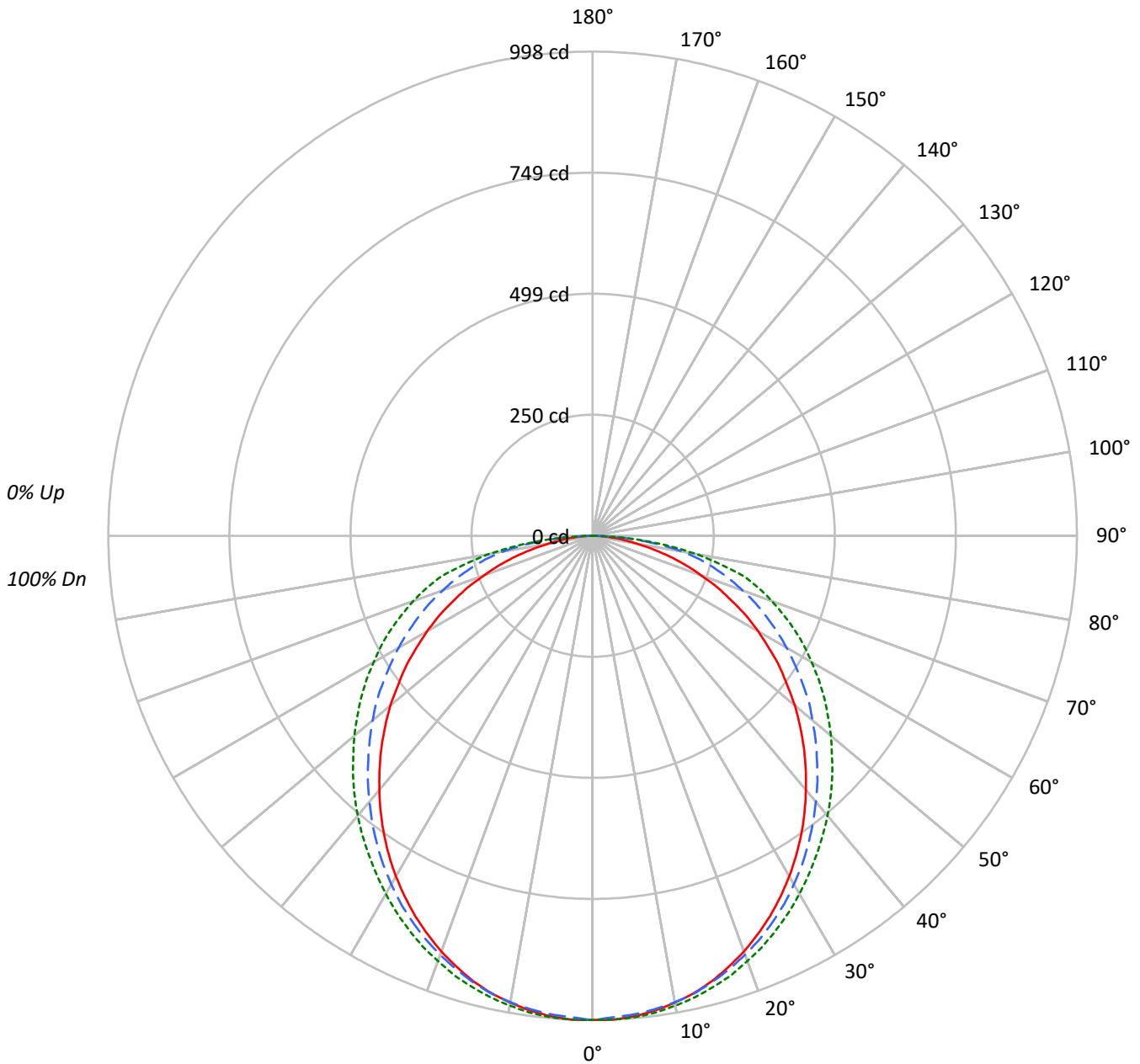
Lumens per Lamp: N/A
Luminaire Lumens: 2973.0 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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°	1409	1409	1409
5°	1409	1403	1411
10°	1401	1399	1409
15°	1389	1392	1406
20°	1370	1380	1401
25°	1347	1368	1395
30°	1321	1352	1389
35°	1292	1335	1385
40°	1260	1318	1387
45°	1228	1305	1394
50°	1194	1299	1407
55°	1157	1296	1433
60°	1112	1302	1470
65°	1054	1322	1534
70°	978	1355	1622
75°	893	1423	1758
80°	734	1532	1758
85°	562	1414	1511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	3.2
10°-20°	269.5	9.1
20°-30°	405.6	13.6
30°-40°	486.0	16.3
40°-50°	506.5	17.0
50°-60°	471.2	15.9
60°-70°	388.1	13.1
70°-80°	264.3	8.9
80°-90°	87.3	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°	769.5	25.9
0°-40°	1255.5	42.2
0°-60°	2233.3	75.1
0°-90°	2973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	994	994	990	995	996	94
15°	950	952	952	962	962	268
25°	865	869	878	893	896	398
35°	750	759	775	796	804	469
45°	615	628	654	687	698	474
55°	470	486	527	568	582	419
65°	316	342	396	442	459	313
75°	164	200	261	308	322	173
85°	35	67	87	93	93	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.2	998.2	998.2	998.2	998.2
2.5°	998.2	998.2	993.2	998.2	998.2
5°	994.2	994.2	990.2	995.2	996.2
7.5°	987.2	988.3	984.3	990.2	991.3
10°	977.3	978.4	976.3	982.3	983.3
12.5°	965.5	966.4	966.4	973.3	974.4
15°	950.5	951.6	952.5	961.5	962.5
17.5°	931.7	934.7	936.6	947.6	949.5
20°	911.9	914.9	918.8	930.7	932.7
22.5°	889.0	893.0	899.9	912.8	915.8
25°	865.2	869.2	878.2	893.0	896.0
27.5°	838.4	844.4	855.3	871.2	875.2
30°	810.7	816.6	829.5	846.3	852.3
32.5°	780.9	788.8	803.6	822.5	828.5
35°	750.1	759.0	774.9	795.8	803.6
37.5°	717.4	727.3	746.1	769.0	778.9
40°	683.7	695.5	715.4	742.2	753.1
42.5°	649.9	660.9	685.6	714.4	726.3
45°	615.2	628.1	653.9	686.6	698.5
47.5°	579.4	592.3	623.1	657.9	668.7
50°	543.8	556.7	591.4	628.1	641.0
52.5°	505.0	521.9	561.6	598.3	611.2
55°	470.3	486.1	526.9	568.5	582.4
57.5°	430.6	449.4	494.1	537.8	552.6
60°	393.9	413.8	461.4	506.0	520.9
62.5°	356.3	378.0	428.6	474.3	491.2
65°	315.5	342.3	395.8	442.5	459.3
67.5°	278.8	306.6	363.2	410.8	425.6
70°	237.1	270.9	328.4	376.1	393.0
72.5°	201.4	235.1	295.6	342.3	359.1
75°	163.7	200.4	260.9	307.6	322.4
77.5°	126.0	166.7	227.2	263.0	267.9
80°	90.3	133.0	188.5	209.4	216.3
82.5°	63.5	102.2	139.0	152.8	156.8
85°	34.7	67.4	87.3	93.3	93.3
87.5°	14.8	28.8	34.7	35.8	36.7
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)