

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: P734292

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734292
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: 24FCZ2-35HE-B2750-W2D-CA125-3000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

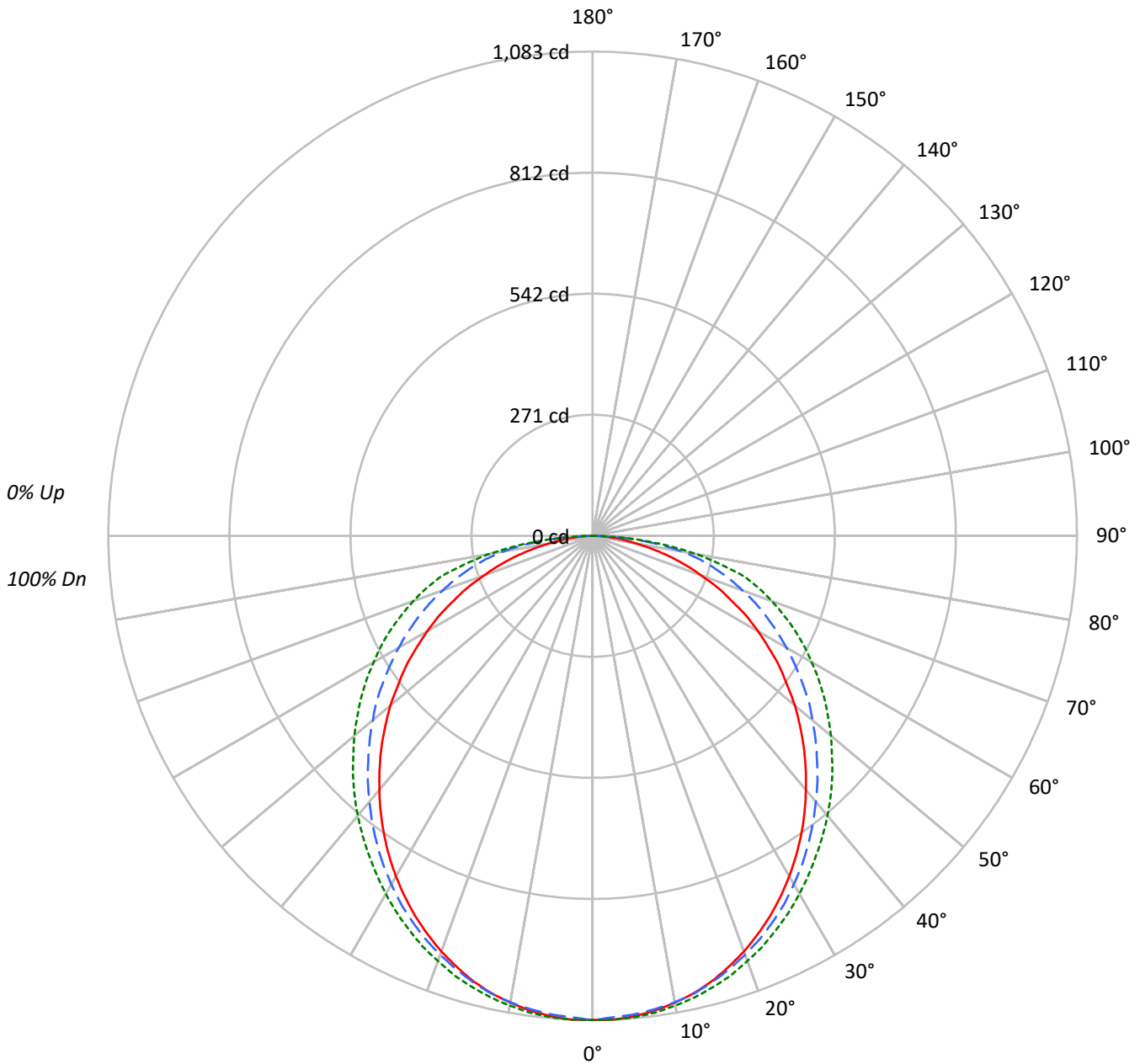
Lumens per Lamp: N/A
Luminaire Lumens: 3226.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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°	1529	1529	1529
5°	1528	1522	1531
10°	1520	1518	1529
15°	1507	1510	1526
20°	1486	1497	1520
25°	1462	1484	1514
30°	1434	1467	1507
35°	1402	1449	1502
40°	1367	1430	1505
45°	1332	1416	1513
50°	1296	1409	1527
55°	1256	1407	1555
60°	1207	1413	1596
65°	1143	1434	1664
70°	1062	1470	1760
75°	969	1544	1908
80°	797	1662	1908
85°	609	1534	1639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	3.2
10°-20°	292.5	9.1
20°-30°	440.1	13.6
30°-40°	527.4	16.3
40°-50°	549.6	17.0
50°-60°	511.4	15.9
60°-70°	421.1	13.1
70°-80°	286.8	8.9
80°-90°	94.7	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°	835.0	25.9
0°-40°	1362.4	42.2
0°-60°	2423.3	75.1
0°-90°	3226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1083	1083	1083	1083	1083	
5°	1079	1079	1074	1080	1081	102
15°	1031	1033	1034	1043	1044	291
25°	939	943	953	969	972	432
35°	814	824	841	864	872	509
45°	668	682	710	745	758	515
55°	510	528	572	617	632	455
65°	342	371	430	480	498	340
75°	178	218	283	334	350	187
85°	38	73	95	101	101	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1083.2	1083.2	1083.2	1083.2	1083.2
2.5°	1083.2	1083.2	1077.7	1083.2	1083.2
5°	1078.8	1078.8	1074.5	1079.9	1081.0
7.5°	1071.2	1072.4	1068.1	1074.5	1075.6
10°	1060.5	1061.6	1059.4	1065.9	1066.9
12.5°	1047.6	1048.7	1048.7	1056.2	1057.3
15°	1031.4	1032.6	1033.6	1043.3	1044.4
17.5°	1011.0	1014.3	1016.3	1028.3	1030.4
20°	989.5	992.7	997.0	1009.8	1012.1
22.5°	964.7	969.0	976.5	990.5	993.8
25°	938.9	943.1	952.9	969.0	972.2
27.5°	909.8	916.3	928.1	945.4	949.6
30°	879.7	886.1	900.1	918.4	924.9
32.5°	847.4	855.9	872.0	892.5	899.0
35°	813.9	823.6	840.9	863.5	872.0
37.5°	778.5	789.2	809.6	834.4	845.2
40°	741.9	754.7	776.3	805.3	817.1
42.5°	705.2	717.1	744.0	775.2	788.1
45°	667.5	681.5	709.6	745.0	758.0
47.5°	628.7	642.7	676.1	713.9	725.7
50°	590.1	604.1	641.7	681.5	695.6
52.5°	548.0	566.3	609.4	649.2	663.2
55°	510.4	527.5	571.8	616.9	632.0
57.5°	467.3	487.7	536.2	583.6	599.7
60°	427.5	449.0	500.6	549.0	565.3
62.5°	386.6	410.2	465.1	514.7	533.0
65°	342.3	371.4	429.5	480.1	498.4
67.5°	302.5	332.7	394.1	445.8	461.8
70°	257.3	293.9	356.3	408.1	426.4
72.5°	218.5	255.1	320.8	371.4	389.7
75°	177.7	217.5	283.2	333.8	349.9
77.5°	136.8	180.9	246.6	285.4	290.7
80°	98.0	144.3	204.5	227.2	234.7
82.5°	68.9	111.0	150.8	165.8	170.1
85°	37.6	73.2	94.7	101.2	101.2
87.5°	16.1	31.3	37.6	38.8	39.8
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)