

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: P734166

Luminaire Tested: **24FCZ2-35-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734166
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-CA125-2700K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

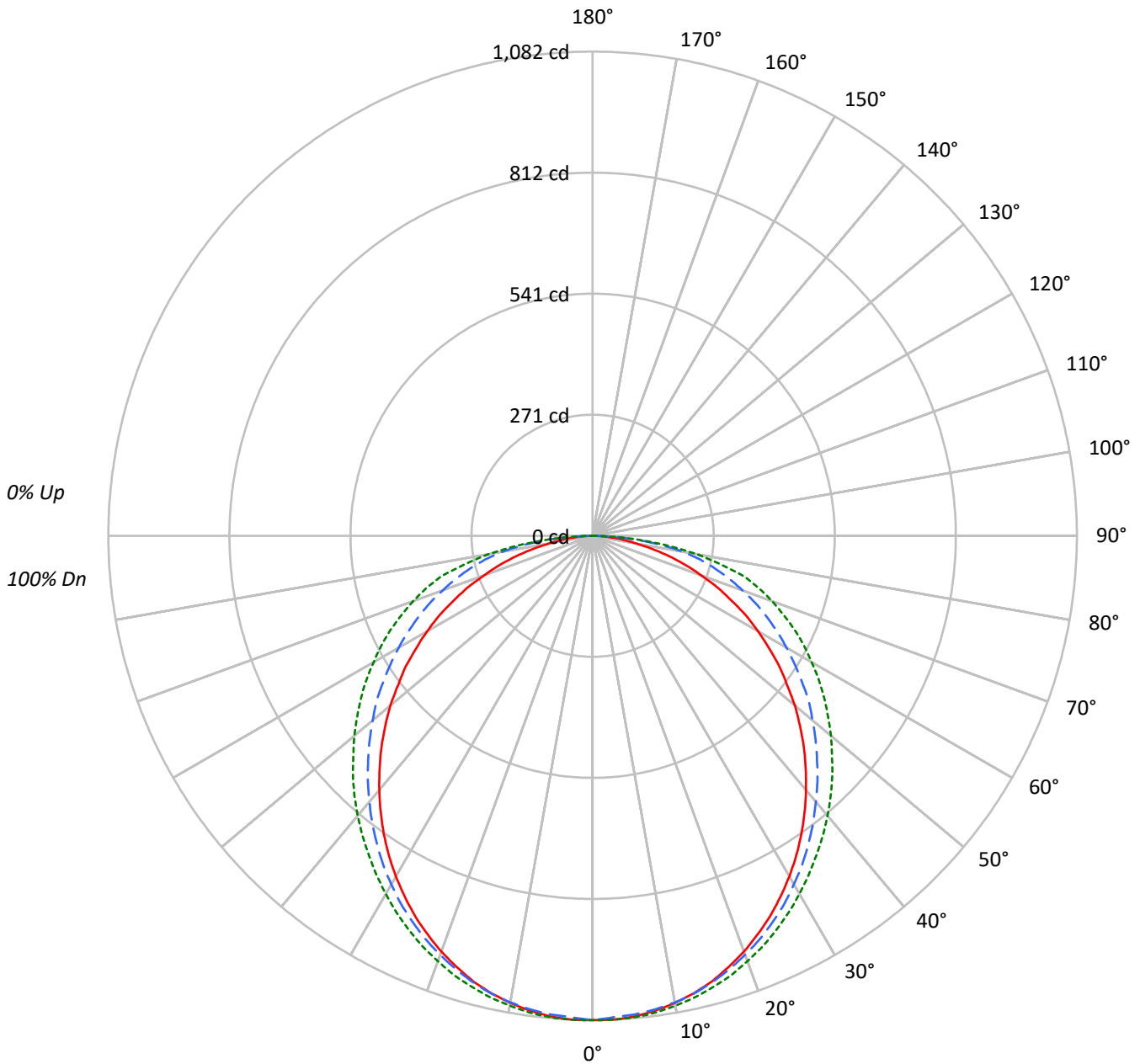
Lumens per Lamp: N/A
Luminaire Lumens: 3224.0 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1528	1528	1528
5°	1527	1521	1530
10°	1519	1517	1528
15°	1506	1509	1525
20°	1485	1497	1519
25°	1461	1483	1513
30°	1433	1466	1506
35°	1401	1448	1502
40°	1366	1429	1504
45°	1331	1415	1512
50°	1295	1408	1526
55°	1255	1406	1554
60°	1206	1412	1595
65°	1142	1434	1663
70°	1061	1469	1759
75°	968	1543	1906
80°	796	1661	1907
85°	609	1534	1639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	3.2
10°-20°	292.3	9.1
20°-30°	439.8	13.6
30°-40°	527.1	16.3
40°-50°	549.3	17.0
50°-60°	511.0	15.9
60°-70°	420.9	13.1
70°-80°	286.7	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°	834.5	25.9
0°-40°	1361.5	42.2
0°-60°	2421.8	75.1
0°-90°	3224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3224.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1078	1078	1074	1079	1080	102
15°	1031	1032	1033	1043	1044	290
25°	938	943	952	968	972	432
35°	813	823	840	863	872	508
45°	667	681	709	744	758	514
55°	510	527	571	616	632	455
65°	342	371	429	480	498	340
75°	178	217	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°	1082.5	1082.5	1082.5	1082.5	1082.5
2.5°	1082.5	1082.5	1077.0	1082.5	1082.5
5°	1078.1	1078.1	1073.8	1079.3	1080.3
7.5°	1070.6	1071.7	1067.5	1073.8	1075.0
10°	1059.8	1061.0	1058.8	1065.2	1066.3
12.5°	1047.0	1048.0	1048.0	1055.5	1056.7
15°	1030.8	1031.9	1033.0	1042.7	1043.7
17.5°	1010.4	1013.6	1015.7	1027.6	1029.7
20°	988.9	992.1	996.4	1009.2	1011.4
22.5°	964.1	968.4	975.9	989.9	993.1
25°	938.3	942.6	952.3	968.4	971.6
27.5°	909.2	915.7	927.5	944.8	949.0
30°	879.1	885.5	899.5	917.8	924.3
32.5°	846.9	855.4	871.5	892.0	898.5
35°	813.4	823.1	840.4	862.9	871.5
37.5°	778.0	788.8	809.1	833.9	844.7
40°	741.4	754.3	775.8	804.8	816.6
42.5°	704.7	716.6	743.5	774.7	787.6
45°	667.1	681.1	709.1	744.5	757.5
47.5°	628.3	642.3	675.7	713.4	725.2
50°	589.7	603.7	641.3	681.1	695.1
52.5°	547.7	566.0	609.0	648.8	662.8
55°	510.1	527.2	571.4	616.5	631.6
57.5°	467.0	487.4	535.9	583.2	599.3
60°	427.2	448.7	500.3	548.7	564.9
62.5°	386.3	409.9	464.8	514.3	532.6
65°	342.1	371.2	429.3	479.8	498.1
67.5°	302.3	332.5	393.9	445.5	461.6
70°	257.2	293.7	356.1	407.9	426.2
72.5°	218.4	255.0	320.6	371.2	389.4
75°	177.5	217.4	283.0	333.6	349.6
77.5°	136.7	180.8	246.4	285.2	290.5
80°	97.9	144.2	204.4	227.1	234.6
82.5°	68.9	110.9	150.7	165.7	170.0
85°	37.6	73.1	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)