

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: P734168

Luminaire Tested: **24FCZ2-35-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734168
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-CA125-3500K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

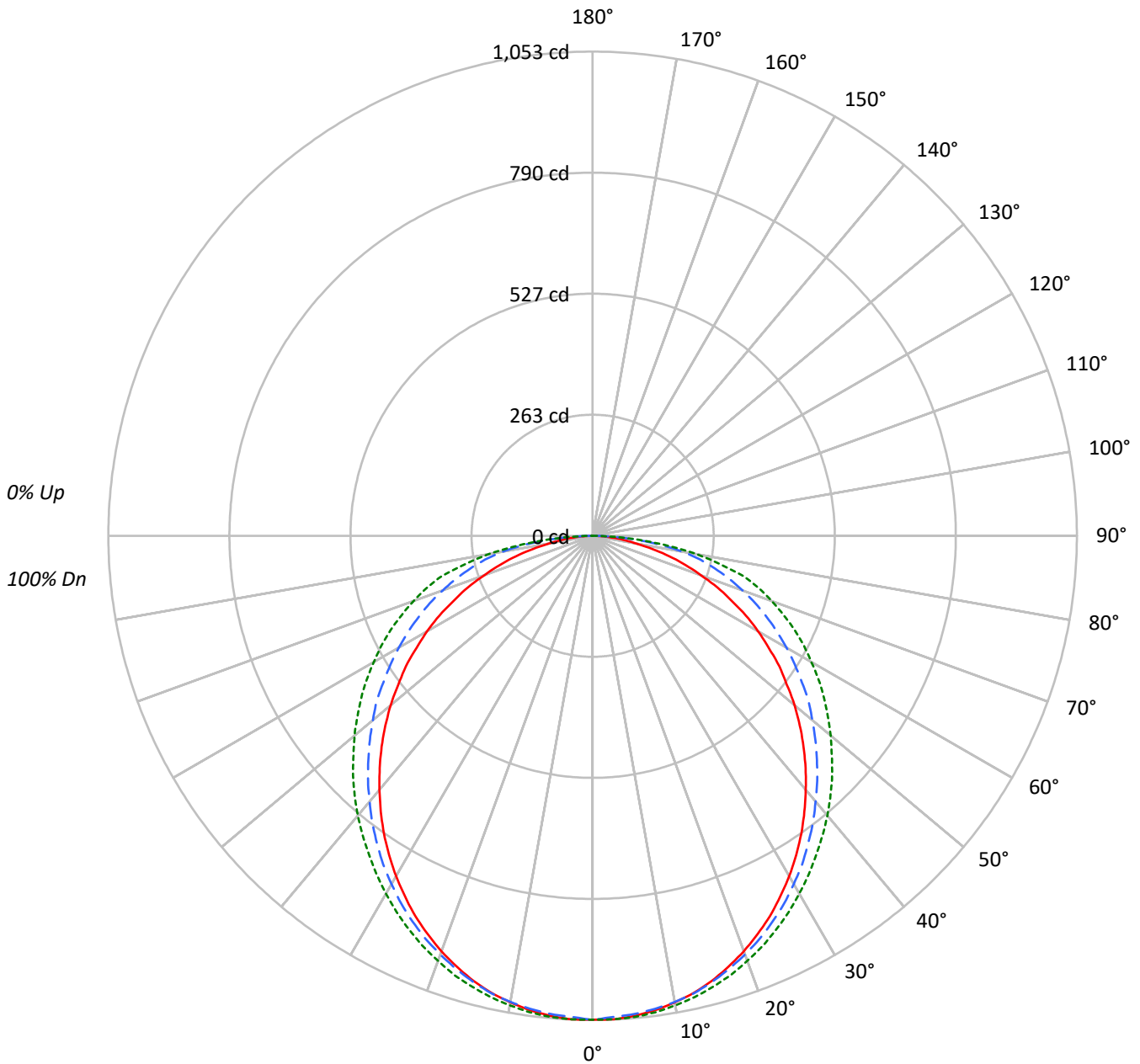
Lumens per Lamp: N/A
Luminaire Lumens: 3135.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1486	1486	1486
5°	1485	1479	1488
10°	1477	1475	1486
15°	1464	1468	1483
20°	1444	1455	1477
25°	1421	1442	1471
30°	1393	1425	1465
35°	1363	1408	1460
40°	1328	1390	1463
45°	1295	1376	1470
50°	1259	1369	1484
55°	1220	1367	1511
60°	1173	1373	1550
65°	1111	1394	1618
70°	1032	1429	1710
75°	941	1501	1854
80°	774	1615	1854
85°	593	1491	1593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	3.2
10°-20°	284.2	9.1
20°-30°	427.7	13.6
30°-40°	512.5	16.3
40°-50°	534.1	17.0
50°-60°	496.9	15.9
60°-70°	409.3	13.1
70°-80°	278.7	8.9
80°-90°	92.0	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°	811.4	25.9
0°-40°	1324.0	42.2
0°-60°	2355.0	75.1
0°-90°	3135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1053	1053	1053	1053	1053	
5°	1048	1048	1044	1050	1050	99
15°	1002	1003	1004	1014	1015	282
25°	912	916	926	942	945	420
35°	791	800	817	839	847	494
45°	649	662	690	724	737	500
55°	496	513	556	600	614	442
65°	333	361	417	467	484	330
75°	173	211	275	324	340	182
85°	37	71	92	98	98	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1052.6	1052.6	1052.6	1052.6	1052.6
2.5°	1052.6	1052.6	1047.3	1052.6	1052.6
5°	1048.3	1048.3	1044.2	1049.5	1050.5
7.5°	1041.0	1042.1	1038.0	1044.2	1045.3
10°	1030.5	1031.7	1029.5	1035.8	1036.9
12.5°	1018.1	1019.1	1019.1	1026.4	1027.5
15°	1002.3	1003.4	1004.4	1013.9	1014.9
17.5°	982.5	985.7	987.7	999.3	1001.3
20°	961.6	964.7	968.9	981.4	983.5
22.5°	937.5	941.6	949.0	962.6	965.7
25°	912.4	916.5	926.0	941.6	944.8
27.5°	884.1	890.4	901.9	918.7	922.8
30°	854.9	861.1	874.7	892.5	898.8
32.5°	823.5	831.8	847.4	867.4	873.7
35°	790.9	800.4	817.2	839.1	847.4
37.5°	756.5	767.0	786.8	810.9	821.3
40°	721.0	733.4	754.4	782.6	794.1
42.5°	685.3	696.9	723.0	753.4	765.8
45°	648.7	662.3	689.6	724.0	736.6
47.5°	611.0	624.6	657.0	693.7	705.2
50°	573.4	587.0	623.6	662.3	675.9
52.5°	532.5	550.3	592.2	630.9	644.5
55°	496.0	512.6	555.6	599.5	614.1
57.5°	454.1	473.9	521.1	567.1	582.7
60°	415.4	436.3	486.5	533.6	549.3
62.5°	375.7	398.6	452.0	500.1	517.9
65°	332.7	360.9	417.4	466.6	484.4
67.5°	294.0	323.3	383.0	433.2	448.8
70°	250.1	285.6	346.3	396.6	414.4
72.5°	212.4	247.9	311.7	360.9	378.7
75°	172.6	211.4	275.2	324.3	340.0
77.5°	132.9	175.8	239.6	277.3	282.5
80°	95.2	140.2	198.7	220.8	228.1
82.5°	67.0	107.8	146.5	161.2	165.3
85°	36.6	71.1	92.1	98.4	98.4
87.5°	15.6	30.4	36.6	37.7	38.7
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)