

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: P734172

Luminaire Tested: **24FCZ2-35-B2750-W2D-CP187-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734172
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-CP187-3000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

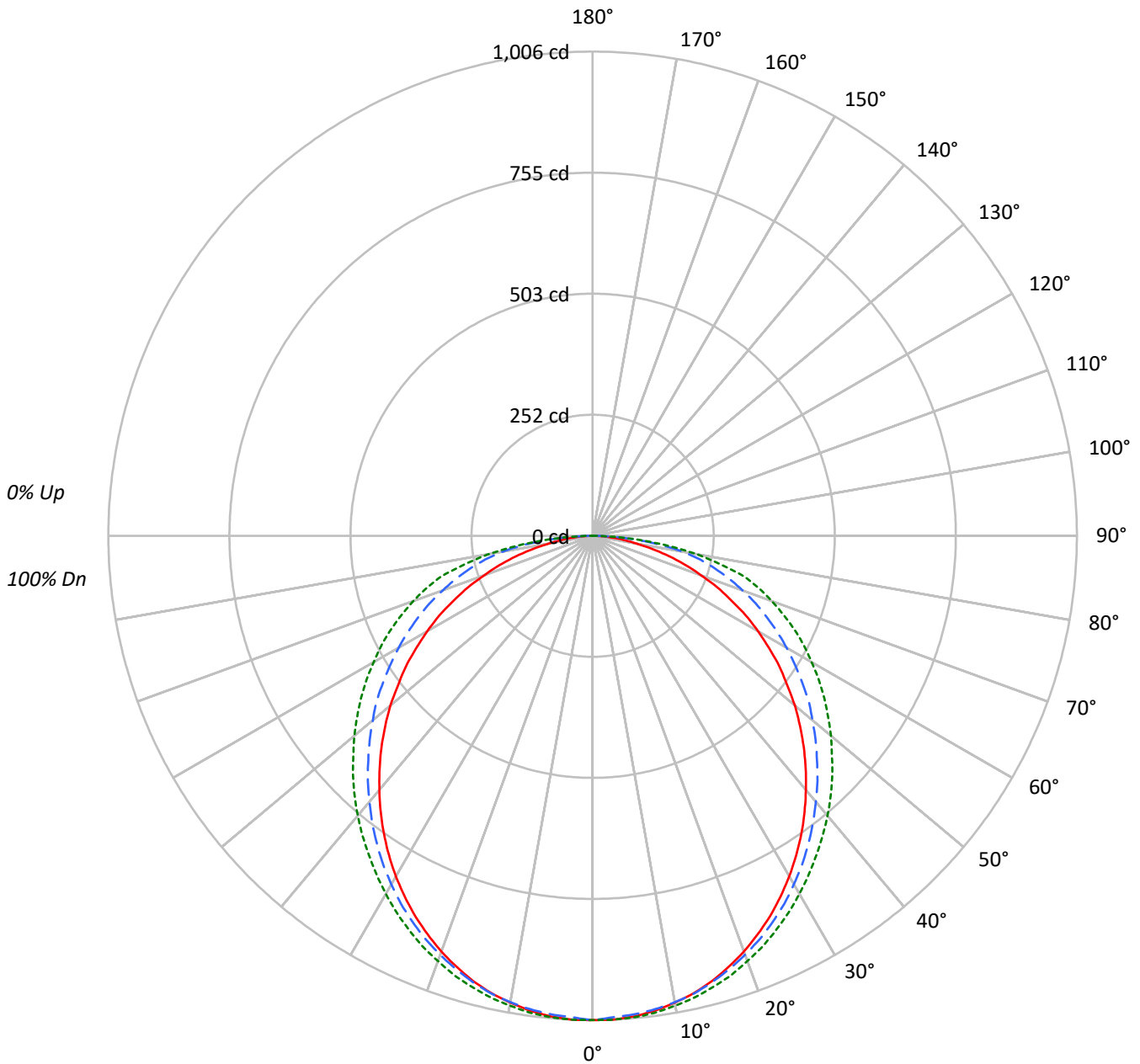
Lumens per Lamp: N/A
Luminaire Lumens: 2997.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1420	1420	1420
5°	1420	1414	1423
10°	1412	1410	1421
15°	1400	1403	1418
20°	1381	1391	1412
25°	1358	1378	1407
30°	1332	1363	1400
35°	1303	1346	1396
40°	1270	1329	1399
45°	1238	1316	1406
50°	1204	1309	1419
55°	1167	1307	1445
60°	1121	1313	1482
65°	1062	1332	1547
70°	987	1366	1634
75°	900	1435	1772
80°	740	1544	1773
85°	567	1425	1522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	3.2
10°-20°	271.7	9.1
20°-30°	408.8	13.6
30°-40°	490.0	16.3
40°-50°	510.6	17.0
50°-60°	475.0	15.9
60°-70°	391.2	13.1
70°-80°	266.5	8.9
80°-90°	88.0	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°	775.7	25.9
0°-40°	1265.7	42.2
0°-60°	2251.3	75.1
0°-90°	2997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2997.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1002	1002	998	1003	1004	95
15°	958	959	960	969	970	270
25°	872	876	885	900	903	402
35°	756	765	781	802	810	473
45°	620	633	659	692	704	478
55°	474	490	531	573	587	423
65°	318	345	399	446	463	316
75°	165	202	263	310	325	174
85°	35	68	88	94	94	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.3	1006.3	1006.3	1006.3	1006.3
2.5°	1006.3	1006.3	1001.2	1006.3	1006.3
5°	1002.2	1002.2	998.2	1003.3	1004.2
7.5°	995.2	996.3	992.3	998.2	999.3
10°	985.2	986.3	984.2	990.2	991.2
12.5°	973.2	974.2	974.2	981.2	982.3
15°	958.2	959.3	960.2	969.3	970.2
17.5°	939.2	942.3	944.2	955.3	957.2
20°	919.2	922.3	926.2	938.2	940.2
22.5°	896.2	900.2	907.2	920.2	923.2
25°	872.2	876.2	885.2	900.2	903.2
27.5°	845.2	851.2	862.2	878.2	882.2
30°	817.2	823.2	836.2	853.2	859.2
32.5°	787.2	795.2	810.1	829.2	835.2
35°	756.1	765.2	781.2	802.2	810.1
37.5°	723.2	733.2	752.1	775.2	785.2
40°	689.2	701.2	721.2	748.2	759.1
42.5°	655.1	666.2	691.1	720.2	732.1
45°	620.1	633.2	659.2	692.1	704.2
47.5°	584.1	597.1	628.1	663.2	674.1
50°	548.2	561.2	596.1	633.2	646.2
52.5°	509.1	526.1	566.1	603.1	616.2
55°	474.1	490.1	531.2	573.1	587.1
57.5°	434.1	453.0	498.1	542.1	557.1
60°	397.1	417.1	465.1	510.1	525.1
62.5°	359.1	381.1	432.1	478.1	495.1
65°	318.0	345.0	399.0	446.1	463.1
67.5°	281.0	309.1	366.1	414.1	429.1
70°	239.1	273.1	331.0	379.1	396.1
72.5°	203.0	237.0	298.0	345.0	362.0
75°	165.0	202.1	263.1	310.1	325.0
77.5°	127.1	168.1	229.1	265.1	270.0
80°	91.0	134.1	190.0	211.1	218.1
82.5°	64.0	103.1	140.1	154.1	158.0
85°	35.0	68.0	88.0	94.0	94.0
87.5°	14.9	29.1	35.0	36.0	37.0
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)