

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: P734178

Luminaire Tested: **24FCZ2-35-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734178
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-CP250-3500K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

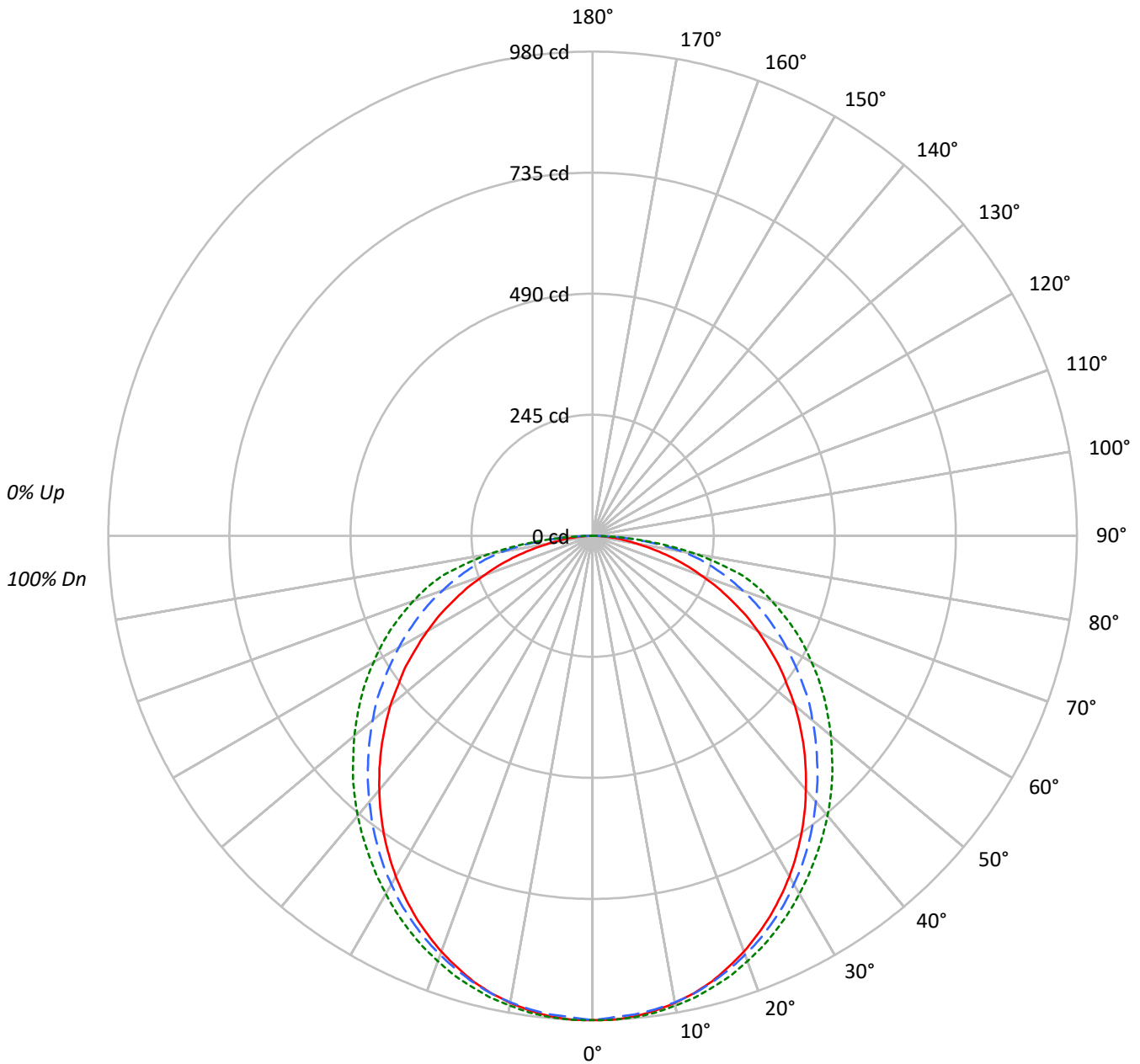
Lumens per Lamp: N/A
Luminaire Lumens: 2920.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): 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°	1384	1384	1384
5°	1383	1378	1386
10°	1376	1374	1384
15°	1364	1367	1381
20°	1345	1355	1376
25°	1323	1343	1370
30°	1298	1328	1364
35°	1269	1311	1360
40°	1237	1294	1363
45°	1206	1282	1369
50°	1173	1275	1382
55°	1137	1273	1407
60°	1092	1279	1444
65°	1035	1298	1507
70°	961	1331	1593
75°	877	1398	1727
80°	721	1504	1727
85°	552	1388	1483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	3.2
10°-20°	264.7	9.1
20°-30°	398.4	13.6
30°-40°	477.4	16.3
40°-50°	497.5	17.0
50°-60°	462.8	15.9
60°-70°	381.2	13.1
70°-80°	259.6	8.9
80°-90°	85.7	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°	755.8	25.9
0°-40°	1233.2	42.2
0°-60°	2193.5	75.1
0°-90°	2920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2920.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	980	980	980	980	980	
5°	976	976	973	978	978	93
15°	934	935	936	944	945	263
25°	850	854	862	877	880	391
35°	737	746	761	782	789	461
45°	604	617	642	674	686	466
55°	462	478	518	558	572	412
65°	310	336	389	435	451	308
75°	161	197	256	302	317	170
85°	34	66	86	92	92	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	980.4	980.4	980.4	980.4	980.4
2.5°	980.4	980.4	975.5	980.4	980.4
5°	976.4	976.4	972.6	977.5	978.4
7.5°	969.6	970.7	966.8	972.6	973.6
10°	959.9	960.9	958.9	964.8	965.7
12.5°	948.2	949.2	949.2	956.0	957.1
15°	933.6	934.6	935.6	944.4	945.3
17.5°	915.1	918.1	919.9	930.7	932.6
20°	895.6	898.6	902.4	914.1	916.1
22.5°	873.2	877.1	883.9	896.6	899.5
25°	849.8	853.7	862.5	877.1	880.0
27.5°	823.5	829.4	840.1	855.7	859.6
30°	796.3	802.0	814.7	831.3	837.1
32.5°	767.0	774.8	789.3	807.9	813.8
35°	736.7	745.5	761.1	781.6	789.3
37.5°	704.6	714.4	732.8	755.3	765.0
40°	671.5	683.1	702.6	728.9	739.6
42.5°	638.3	649.1	673.4	701.7	713.3
45°	604.2	616.9	642.3	674.3	686.1
47.5°	569.1	581.8	612.0	646.1	656.8
50°	534.1	546.8	580.8	616.9	629.6
52.5°	496.0	512.6	551.6	587.6	600.3
55°	462.0	477.5	517.5	558.4	572.0
57.5°	423.0	441.4	485.3	528.2	542.8
60°	386.9	406.4	453.2	497.0	511.6
62.5°	349.9	371.3	421.0	465.8	482.4
65°	309.9	336.2	388.8	434.6	451.2
67.5°	273.8	301.2	356.7	403.5	418.0
70°	232.9	266.0	322.5	369.4	386.0
72.5°	197.8	230.9	290.4	336.2	352.7
75°	160.8	196.9	256.3	302.1	316.7
77.5°	123.8	163.7	223.2	258.3	263.1
80°	88.7	130.6	185.1	205.7	212.5
82.5°	62.4	100.4	136.5	150.1	154.0
85°	34.1	66.2	85.7	91.6	91.6
87.5°	14.6	28.3	34.1	35.1	36.1
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)