

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: P734179

Luminaire Tested: **24FCZ2-35-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734179
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-CP250-4000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

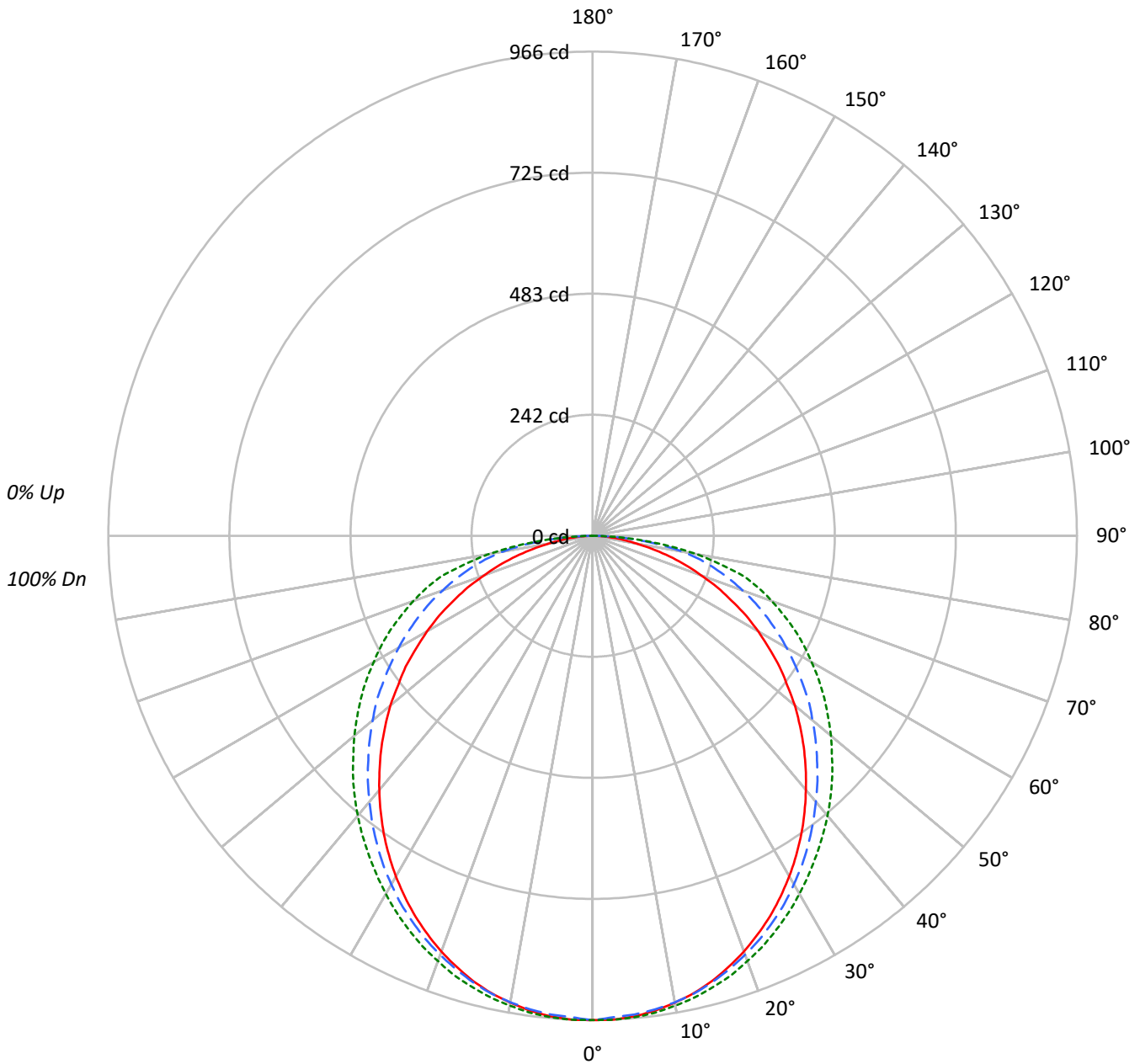
Lumens per Lamp: N/A
Luminaire Lumens: 2878.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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					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°	1364	1364	1364
5°	1363	1358	1366
10°	1356	1354	1364
15°	1344	1347	1361
20°	1326	1336	1356
25°	1304	1324	1351
30°	1279	1309	1345
35°	1251	1293	1340
40°	1219	1276	1343
45°	1189	1263	1350
50°	1156	1257	1362
55°	1120	1255	1387
60°	1076	1261	1423
65°	1020	1280	1485
70°	947	1312	1570
75°	864	1377	1702
80°	710	1483	1702
85°	544	1368	1462



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	3.2
10°-20°	260.9	9.1
20°-30°	392.6	13.6
30°-40°	470.5	16.3
40°-50°	490.3	17.0
50°-60°	456.2	15.9
60°-70°	375.7	13.1
70°-80°	255.9	8.9
80°-90°	84.5	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°	744.9	25.9
0°-40°	1215.4	42.2
0°-60°	2161.9	75.1
0°-90°	2878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	962	962	959	963	964	91
15°	920	921	922	931	932	259
25°	838	841	850	864	867	386
35°	726	735	750	770	778	454
45°	596	608	633	665	676	459
55°	455	471	510	550	564	406
65°	305	331	383	428	445	303
75°	158	194	253	298	312	167
85°	34	65	84	90	90	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.3	966.3	966.3	966.3	966.3
2.5°	966.3	966.3	961.5	966.3	966.3
5°	962.4	962.4	958.6	963.4	964.4
7.5°	955.7	956.7	952.9	958.6	959.6
10°	946.1	947.1	945.1	950.9	951.9
12.5°	934.6	935.5	935.5	942.2	943.3
15°	920.1	921.2	922.1	930.8	931.7
17.5°	902.0	904.8	906.7	917.4	919.2
20°	882.7	885.6	889.5	900.9	902.9
22.5°	860.6	864.4	871.2	883.7	886.6
25°	837.6	841.4	850.1	864.4	867.3
27.5°	811.7	817.4	828.0	843.4	847.2
30°	784.8	790.5	803.0	819.3	825.1
32.5°	756.0	763.6	778.0	796.3	802.0
35°	726.1	734.8	750.2	770.3	778.0
37.5°	694.5	704.1	722.3	744.4	754.0
40°	661.9	673.3	692.5	718.5	729.0
42.5°	629.1	639.7	663.7	691.6	703.1
45°	595.5	608.0	633.0	664.6	676.2
47.5°	560.9	573.4	603.2	636.8	647.4
50°	526.4	538.9	572.5	608.0	620.5
52.5°	488.9	505.2	543.7	579.2	591.7
55°	455.3	470.6	510.1	550.4	563.8
57.5°	416.9	435.1	478.4	520.6	535.0
60°	381.3	400.6	446.6	489.8	504.3
62.5°	344.9	365.9	414.9	459.1	475.5
65°	305.4	331.3	383.2	428.3	444.7
67.5°	269.9	296.8	351.6	397.7	412.0
70°	229.6	262.2	317.9	364.1	380.4
72.5°	195.0	227.6	286.2	331.3	347.7
75°	158.5	194.0	252.6	297.8	312.1
77.5°	122.0	161.4	220.0	254.6	259.3
80°	87.4	128.7	182.5	202.7	209.4
82.5°	61.5	99.0	134.5	148.0	151.8
85°	33.6	65.3	84.5	90.3	90.3
87.5°	14.4	27.9	33.6	34.6	35.5
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)