

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: P734183

Luminaire Tested: **24FCZ2-35-B2750-W2D-CP375-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734183
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-CP375-3500K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

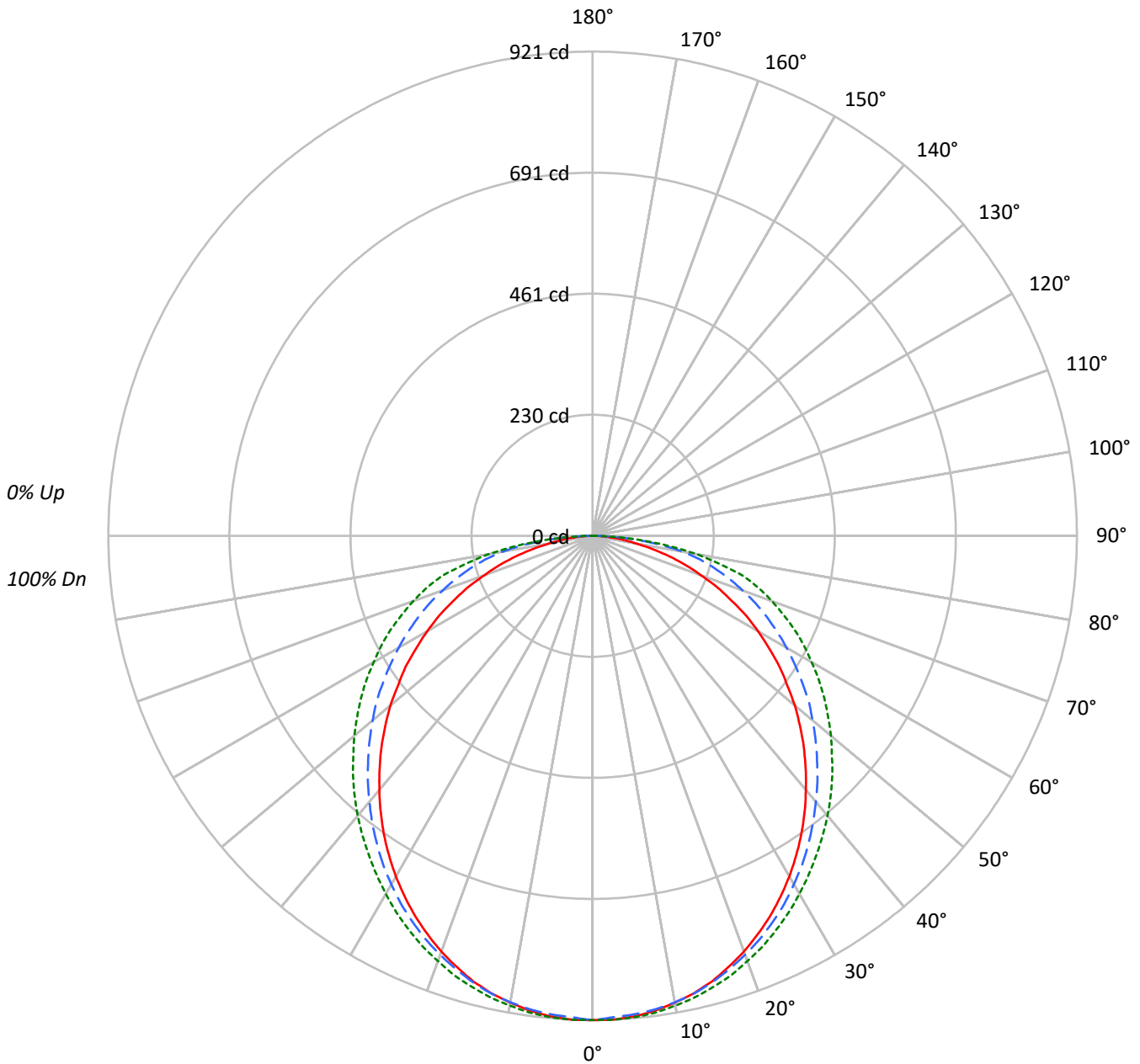
Lumens per Lamp: N/A
Luminaire Lumens: 2744.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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				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				100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82				82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67				67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56				56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48				48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41				41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36				36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32				32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28				28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25				25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23				23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1300	1300	1300
5°	1300	1295	1303
10°	1293	1291	1301
15°	1282	1285	1298
20°	1264	1274	1293
25°	1244	1262	1288
30°	1219	1248	1282
35°	1193	1232	1278
40°	1163	1217	1281
45°	1133	1205	1287
50°	1102	1198	1299
55°	1068	1197	1323
60°	1026	1202	1357
65°	972	1220	1416
70°	903	1251	1497
75°	824	1313	1623
80°	677	1414	1623
85°	518	1305	1394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	3.2
10°-20°	248.8	9.1
20°-30°	374.3	13.6
30°-40°	448.6	16.3
40°-50°	467.5	17.0
50°-60°	434.9	15.9
60°-70°	358.2	13.1
70°-80°	244.0	8.9
80°-90°	80.6	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°	710.2	25.9
0°-40°	1158.8	42.2
0°-60°	2061.3	75.1
0°-90°	2744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	921	921	921	921	921	
5°	918	918	914	919	920	87
15°	877	878	879	887	888	247
25°	799	802	810	824	827	368
35°	692	701	715	734	742	433
45°	568	580	604	634	645	438
55°	434	449	486	525	538	387
65°	291	316	365	408	424	289
75°	151	185	241	284	298	159
85°	32	62	81	86	86	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	921.3	921.3	921.3	921.3	921.3
2.5°	921.3	921.3	916.7	921.3	921.3
5°	917.6	917.6	913.9	918.6	919.5
7.5°	911.2	912.2	908.5	913.9	914.9
10°	902.0	903.0	901.1	906.7	907.5
12.5°	891.1	892.0	892.0	898.4	899.4
15°	877.3	878.3	879.2	887.4	888.3
17.5°	860.0	862.7	864.5	874.6	876.4
20°	841.6	844.4	848.0	859.0	860.8
22.5°	820.6	824.2	830.6	842.5	845.3
25°	798.6	802.2	810.5	824.2	827.0
27.5°	773.9	779.4	789.4	804.1	807.8
30°	748.3	753.7	765.6	781.2	786.7
32.5°	720.8	728.1	741.7	759.2	764.7
35°	692.3	700.6	715.3	734.5	741.7
37.5°	662.2	671.3	688.7	709.7	718.9
40°	631.0	642.0	660.3	685.0	695.1
42.5°	599.8	610.0	632.8	659.4	670.3
45°	567.8	579.7	603.6	633.7	644.7
47.5°	534.8	546.7	575.1	607.2	617.2
50°	501.9	513.8	545.8	579.7	591.6
52.5°	466.1	481.7	518.3	552.2	564.1
55°	434.1	448.7	486.3	524.7	537.5
57.5°	397.5	414.8	456.1	496.4	510.1
60°	363.6	381.9	425.8	467.0	480.8
62.5°	328.8	348.9	395.6	437.8	453.3
65°	291.2	315.9	365.4	408.4	424.0
67.5°	257.3	283.0	335.2	379.2	392.8
70°	218.9	250.0	303.1	347.1	362.7
72.5°	185.9	217.0	272.9	315.9	331.5
75°	151.1	185.0	240.8	283.9	297.6
77.5°	116.3	153.9	209.7	242.7	247.2
80°	83.3	122.7	174.0	193.3	199.7
82.5°	58.6	94.4	128.3	141.1	144.7
85°	32.0	62.3	80.6	86.1	86.1
87.5°	13.7	26.6	32.0	33.0	33.9
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)