

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: P734308

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734308
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: 24FCZ2-35HE-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

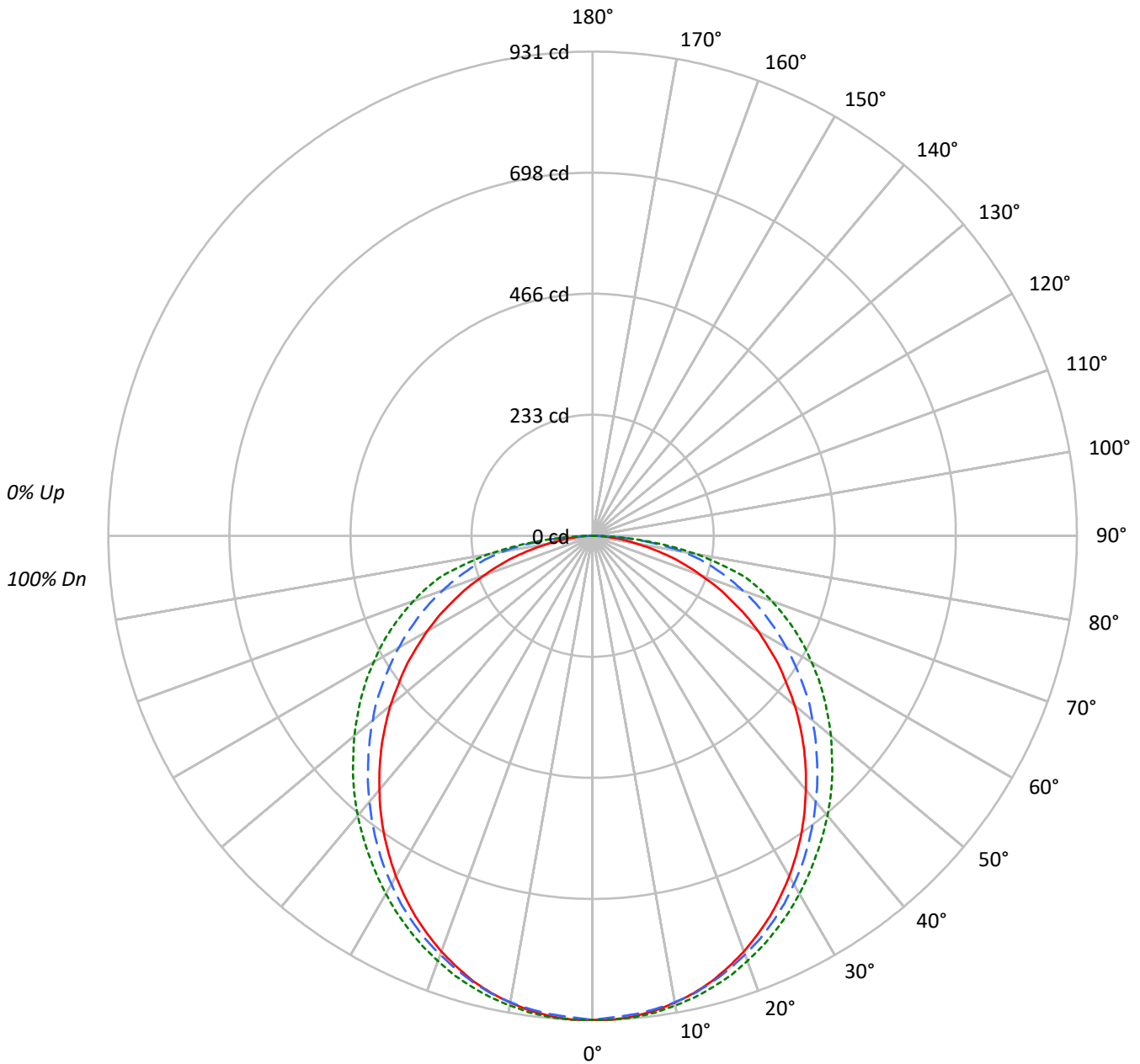
Lumens per Lamp: N/A
Luminaire Lumens: 2773.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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°	1314	1314	1314
5°	1314	1308	1316
10°	1306	1305	1314
15°	1295	1298	1312
20°	1277	1287	1307
25°	1257	1276	1301
30°	1232	1261	1296
35°	1205	1245	1292
40°	1175	1229	1294
45°	1145	1217	1300
50°	1114	1211	1313
55°	1079	1209	1337
60°	1037	1215	1372
65°	983	1233	1431
70°	913	1264	1512
75°	833	1327	1640
80°	684	1429	1640
85°	523	1318	1409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	3.2
10°-20°	251.4	9.1
20°-30°	378.3	13.6
30°-40°	453.3	16.3
40°-50°	472.4	17.0
50°-60°	439.5	15.9
60°-70°	362.0	13.1
70°-80°	246.5	8.9
80°-90°	81.4	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°	717.7	25.9
0°-40°	1171.1	42.2
0°-60°	2083.0	75.1
0°-90°	2773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	931	931	931	931	931	
5°	927	927	924	928	929	88
15°	887	888	888	897	898	250
25°	807	811	819	833	836	372
35°	700	708	723	742	750	437
45°	574	586	610	640	652	443
55°	439	453	492	530	543	391
65°	294	319	369	413	428	292
75°	153	187	243	287	301	161
85°	32	63	81	87	87	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	931.1	931.1	931.1	931.1	931.1
2.5°	931.1	931.1	926.4	931.1	931.1
5°	927.3	927.3	923.6	928.3	929.2
7.5°	920.8	921.8	918.1	923.6	924.6
10°	911.5	912.6	910.7	916.2	917.1
12.5°	900.5	901.4	901.4	907.9	908.9
15°	886.6	887.6	888.5	896.8	897.7
17.5°	869.0	871.8	873.6	883.9	885.7
20°	850.5	853.3	857.0	868.0	869.9
22.5°	829.2	832.9	839.4	851.4	854.2
25°	807.0	810.7	819.1	832.9	835.7
27.5°	782.0	787.6	797.8	812.6	816.3
30°	756.2	761.6	773.7	789.4	795.0
32.5°	728.4	735.8	749.6	767.2	772.8
35°	699.6	708.0	722.8	742.2	749.6
37.5°	669.2	678.4	695.9	717.2	726.5
40°	637.7	648.7	667.3	692.2	702.4
42.5°	606.1	616.4	639.5	666.4	677.4
45°	573.8	585.8	609.9	640.4	651.5
47.5°	540.4	552.5	581.2	613.6	623.8
50°	507.2	519.2	551.6	585.8	597.9
52.5°	471.1	486.8	523.8	558.1	570.1
55°	438.7	453.4	491.5	530.3	543.2
57.5°	401.7	419.2	460.9	501.6	515.5
60°	367.4	385.9	430.3	471.9	485.9
62.5°	332.3	352.6	399.8	442.4	458.1
65°	294.3	319.2	369.2	412.7	428.4
67.5°	260.0	286.0	338.8	383.2	397.0
70°	221.2	252.6	306.3	350.8	366.5
72.5°	187.8	219.3	275.7	319.2	335.0
75°	152.7	186.9	243.4	286.9	300.7
77.5°	117.6	155.5	211.9	245.3	249.9
80°	84.2	124.0	175.8	195.3	201.8
82.5°	59.2	95.4	129.6	142.6	146.2
85°	32.3	62.9	81.4	87.0	87.0
87.5°	13.8	26.9	32.3	33.4	34.2
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)