

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: P734298

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734298
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-CP187-3500K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

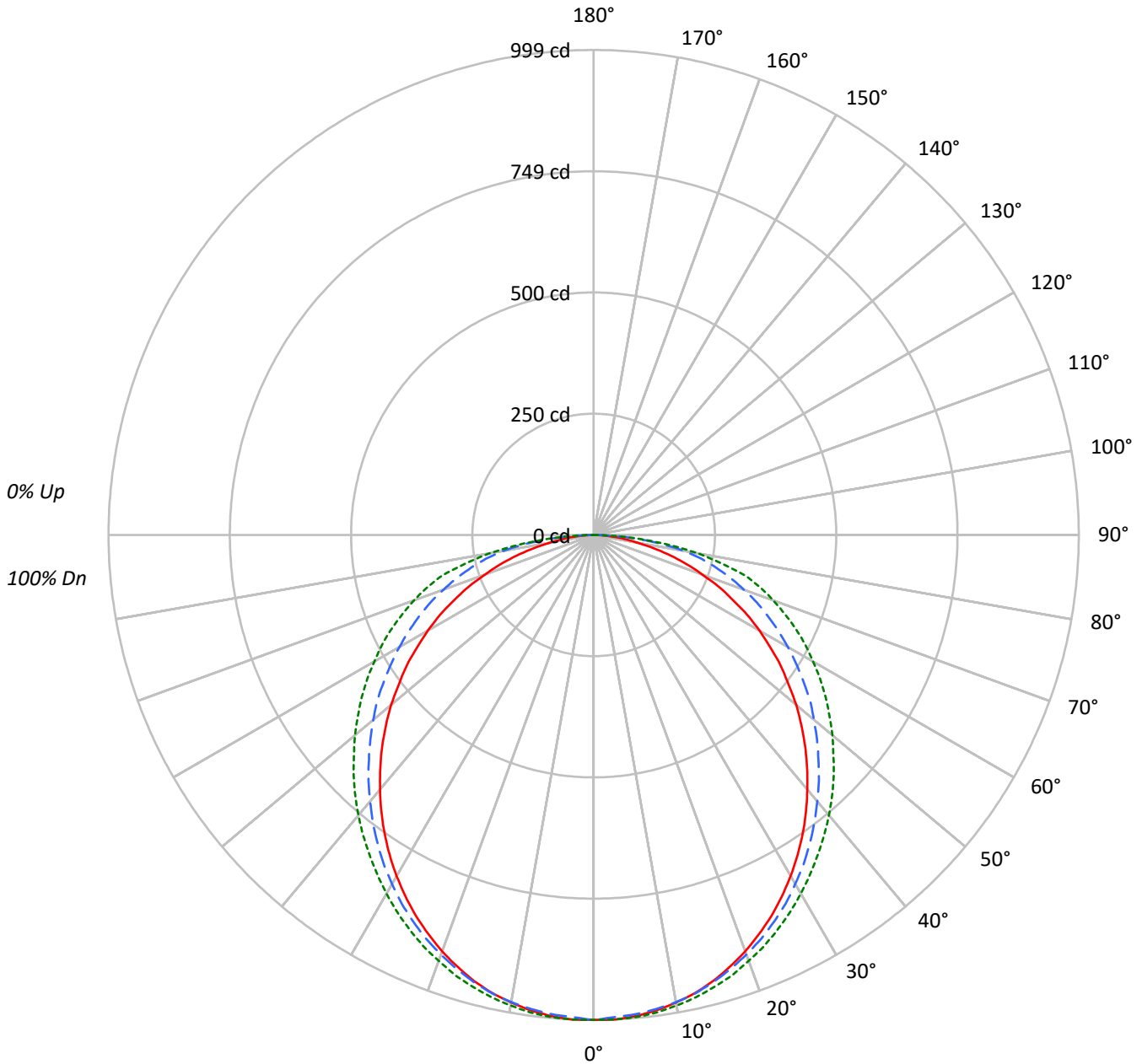
Lumens per Lamp: N/A
Luminaire Lumens: 2976.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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				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°	1410	1410	1410
5°	1410	1404	1413
10°	1402	1401	1411
15°	1390	1393	1408
20°	1371	1381	1402
25°	1349	1369	1397
30°	1322	1353	1390
35°	1294	1336	1386
40°	1261	1319	1389
45°	1229	1307	1396
50°	1195	1300	1409
55°	1158	1298	1435
60°	1113	1304	1472
65°	1055	1323	1536
70°	980	1356	1623
75°	894	1424	1760
80°	735	1534	1760
85°	562	1415	1512



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.2
10°-20°	269.8	9.1
20°-30°	406.0	13.6
30°-40°	486.5	16.3
40°-50°	507.0	17.0
50°-60°	471.7	15.9
60°-70°	388.5	13.1
70°-80°	264.6	8.9
80°-90°	87.4	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°	770.3	25.9
0°-40°	1256.8	42.2
0°-60°	2235.5	75.1
0°-90°	2976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	995	995	991	996	997	94
15°	952	952	954	962	963	268
25°	866	870	879	894	897	399
35°	751	760	776	797	804	469
45°	616	629	655	687	699	475
55°	471	487	527	569	583	420
65°	316	343	396	443	460	313
75°	164	201	261	308	323	173
85°	35	68	87	93	93	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.2	999.2	999.2	999.2	999.2
2.5°	999.2	999.2	994.2	999.2	999.2
5°	995.2	995.2	991.2	996.2	997.2
7.5°	988.2	989.3	985.3	991.2	992.3
10°	978.3	979.4	977.3	983.3	984.3
12.5°	966.4	967.4	967.4	974.3	975.4
15°	951.5	952.5	953.5	962.5	963.4
17.5°	932.7	935.7	937.6	948.6	950.5
20°	912.8	915.8	919.7	931.6	933.6
22.5°	889.9	893.9	900.8	913.8	916.7
25°	866.1	870.1	879.0	893.9	896.9
27.5°	839.3	845.3	856.2	872.1	876.0
30°	811.5	817.4	830.3	847.2	853.2
32.5°	781.7	789.6	804.5	823.4	829.4
35°	750.8	759.8	775.7	796.6	804.5
37.5°	718.1	728.1	746.9	769.7	779.7
40°	684.4	696.2	716.1	742.9	753.8
42.5°	650.5	661.5	686.3	715.2	727.0
45°	615.8	628.7	654.6	687.3	699.2
47.5°	580.0	592.9	623.7	658.5	669.4
50°	544.3	557.3	592.0	628.7	641.7
52.5°	505.5	522.4	562.2	598.9	611.8
55°	470.8	486.6	527.4	569.1	583.0
57.5°	431.1	449.9	494.6	538.3	553.2
60°	394.3	414.2	461.8	506.5	521.5
62.5°	356.6	378.4	429.0	474.8	491.7
65°	315.8	342.6	396.2	442.9	459.8
67.5°	279.0	306.9	363.6	411.2	426.1
70°	237.4	271.1	328.7	376.5	393.4
72.5°	201.6	235.4	295.9	342.6	359.5
75°	163.9	200.6	261.2	307.9	322.7
77.5°	126.2	166.9	227.5	263.2	268.2
80°	90.4	133.1	188.7	209.6	216.6
82.5°	63.6	102.4	139.1	153.0	156.9
85°	34.7	67.5	87.4	93.4	93.4
87.5°	14.8	28.9	34.7	35.8	36.8
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)