

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: P734294

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734294
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-CA125-4000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

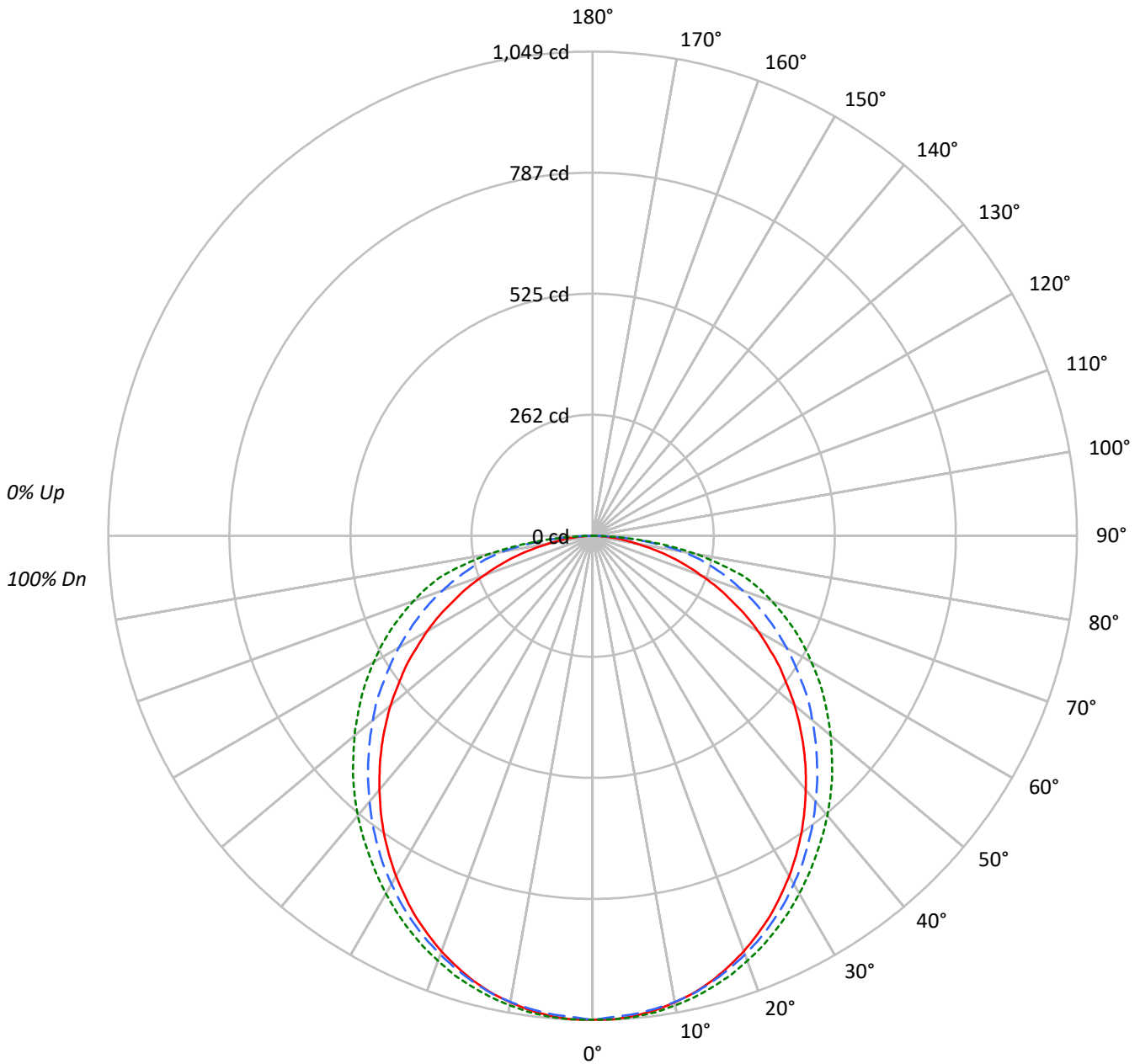
Lumens per Lamp: N/A
Luminaire Lumens: 3123.0 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1480	1480	1480
5°	1479	1474	1482
10°	1471	1470	1480
15°	1459	1462	1477
20°	1439	1450	1471
25°	1415	1437	1466
30°	1388	1420	1459
35°	1357	1402	1454
40°	1323	1385	1458
45°	1290	1371	1465
50°	1254	1364	1478
55°	1216	1362	1505
60°	1168	1368	1545
65°	1107	1389	1611
70°	1028	1424	1703
75°	938	1495	1847
80°	770	1609	1847
85°	589	1485	1587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.2
10°-20°	283.1	9.1
20°-30°	426.0	13.6
30°-40°	510.6	16.3
40°-50°	532.1	17.0
50°-60°	495.0	15.9
60°-70°	407.7	13.1
70°-80°	277.7	8.9
80°-90°	91.7	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°	808.3	25.9
0°-40°	1318.9	42.2
0°-60°	2346.0	75.1
0°-90°	3123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1049	1049	1049	1049	1049	
5°	1044	1044	1040	1045	1046	99
15°	998	1000	1001	1010	1011	281
25°	909	913	922	938	941	418
35°	788	797	814	836	844	493
45°	646	660	687	721	734	498
55°	494	511	554	597	612	440
65°	331	360	416	465	482	329
75°	172	210	274	323	339	181
85°	36	71	92	98	98	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1048.6	1048.6	1048.6	1048.6	1048.6
2.5°	1048.6	1048.6	1043.3	1048.6	1048.6
5°	1044.3	1044.3	1040.2	1045.4	1046.4
7.5°	1037.0	1038.2	1034.0	1040.2	1041.3
10°	1026.6	1027.7	1025.6	1031.9	1032.9
12.5°	1014.2	1015.2	1015.2	1022.5	1023.6
15°	998.5	999.6	1000.6	1010.0	1011.0
17.5°	978.7	981.9	983.9	995.4	997.5
20°	957.9	961.0	965.2	977.6	979.7
22.5°	933.9	938.0	945.3	958.9	962.0
25°	908.9	913.0	922.5	938.0	941.2
27.5°	880.8	887.0	898.5	915.2	919.3
30°	851.6	857.8	871.3	889.0	895.3
32.5°	820.3	828.6	844.2	864.0	870.3
35°	787.9	797.3	814.0	835.9	844.2
37.5°	753.6	764.0	783.8	807.8	818.2
40°	718.2	730.6	751.5	779.6	791.1
42.5°	682.6	694.2	720.2	750.5	762.9
45°	646.2	659.8	686.9	721.2	733.8
47.5°	608.6	622.2	654.5	691.1	702.5
50°	571.2	584.8	621.2	659.8	673.3
52.5°	530.5	548.2	589.9	628.5	642.1
55°	494.1	510.7	553.5	597.2	611.8
57.5°	452.4	472.1	519.1	564.9	580.5
60°	413.8	434.7	484.7	531.5	547.2
62.5°	374.2	397.1	450.2	498.2	515.9
65°	331.4	359.5	415.8	464.8	482.5
67.5°	292.8	322.1	381.5	431.5	447.1
70°	249.1	284.5	345.0	395.1	412.8
72.5°	211.6	247.0	310.5	359.5	377.2
75°	172.0	210.5	274.1	323.1	338.7
77.5°	132.4	175.1	238.7	276.2	281.4
80°	94.8	139.7	198.0	220.0	227.3
82.5°	66.7	107.4	146.0	160.5	164.7
85°	36.4	70.9	91.7	98.0	98.0
87.5°	15.6	30.3	36.4	37.6	38.6
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)