

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: P734291

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734291
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-CA125-2700K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

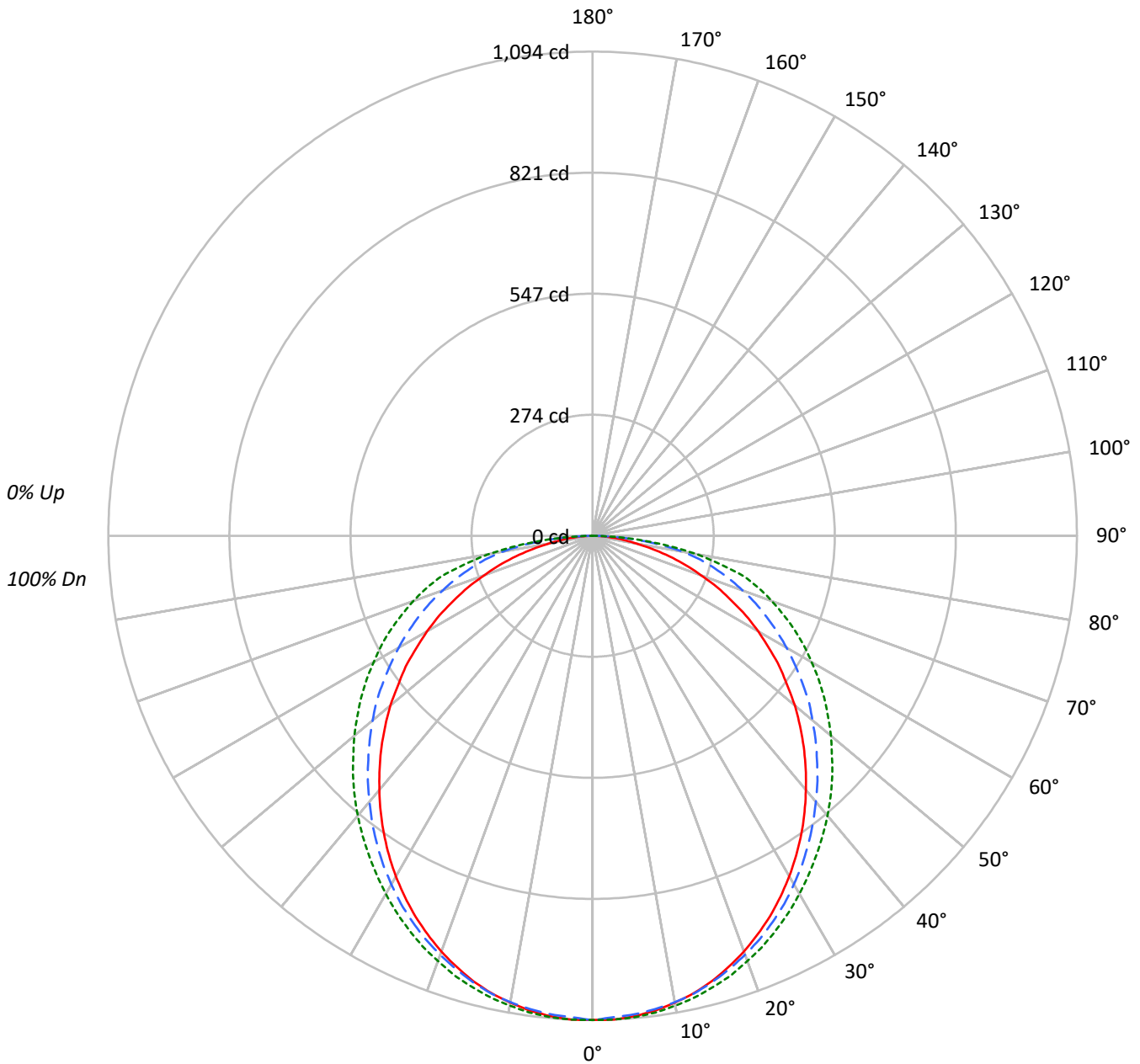
Lumens per Lamp: N/A
Luminaire Lumens: 3259.0 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1544	1544	1544
5°	1544	1538	1547
10°	1535	1534	1545
15°	1522	1526	1542
20°	1501	1513	1536
25°	1477	1499	1530
30°	1448	1482	1523
35°	1417	1464	1518
40°	1381	1445	1521
45°	1346	1431	1528
50°	1309	1423	1543
55°	1269	1421	1571
60°	1219	1428	1612
65°	1155	1449	1681
70°	1073	1486	1778
75°	979	1560	1927
80°	805	1679	1928
85°	615	1550	1657



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	3.2
10°-20°	295.4	9.1
20°-30°	444.6	13.6
30°-40°	532.8	16.3
40°-50°	555.2	17.0
50°-60°	516.6	15.9
60°-70°	425.4	13.1
70°-80°	289.8	8.9
80°-90°	95.7	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°	843.5	25.9
0°-40°	1376.3	42.2
0°-60°	2448.1	75.1
0°-90°	3259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3259.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1090	1090	1086	1091	1092	103
15°	1042	1043	1044	1054	1055	294
25°	948	953	963	979	982	437
35°	822	832	850	872	881	514
45°	674	688	717	753	766	520
55°	516	533	578	623	638	460
65°	346	375	434	485	504	343
75°	180	220	286	337	353	189
85°	38	74	96	102	102	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1094.2	1094.2	1094.2	1094.2	1094.2
2.5°	1094.2	1094.2	1088.7	1094.2	1094.2
5°	1089.8	1089.8	1085.5	1091.0	1092.0
7.5°	1082.2	1083.4	1079.0	1085.5	1086.6
10°	1071.3	1072.5	1070.3	1076.8	1077.9
12.5°	1058.3	1059.4	1059.4	1067.0	1068.2
15°	1041.9	1043.1	1044.2	1054.0	1055.1
17.5°	1021.4	1024.6	1026.7	1038.8	1040.9
20°	999.6	1002.9	1007.2	1020.2	1022.4
22.5°	974.6	978.9	986.5	1000.6	1003.9
25°	948.5	952.8	962.6	978.9	982.2
27.5°	919.1	925.7	937.6	955.0	959.4
30°	888.7	895.1	909.3	927.8	934.3
32.5°	856.0	864.7	881.0	901.7	908.2
35°	822.2	832.1	849.5	872.3	881.0
37.5°	786.4	797.3	817.9	842.9	853.8
40°	749.5	762.4	784.2	813.6	825.5
42.5°	712.4	724.4	751.6	783.2	796.1
45°	674.4	688.5	716.8	752.6	765.7
47.5°	635.2	649.3	683.0	721.2	733.1
50°	596.1	610.2	648.3	688.5	702.7
52.5°	553.6	572.1	615.6	655.9	670.0
55°	515.6	532.9	577.6	623.2	638.4
57.5°	472.1	492.7	541.7	589.5	605.8
60°	431.8	453.6	505.8	554.7	571.0
62.5°	390.5	414.4	469.8	519.9	538.4
65°	345.8	375.2	433.9	485.1	503.5
67.5°	305.6	336.1	398.1	450.3	466.6
70°	260.0	296.9	360.0	412.3	430.8
72.5°	220.8	257.7	324.1	375.2	393.7
75°	179.5	219.7	286.0	337.2	353.4
77.5°	138.2	182.7	249.1	288.3	293.7
80°	99.0	145.8	206.6	229.5	237.2
82.5°	69.6	112.1	152.3	167.5	171.9
85°	38.0	73.9	95.7	102.3	102.3
87.5°	16.3	31.6	38.0	39.2	40.2
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)