

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: P734286

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734286
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-CA08-2700K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

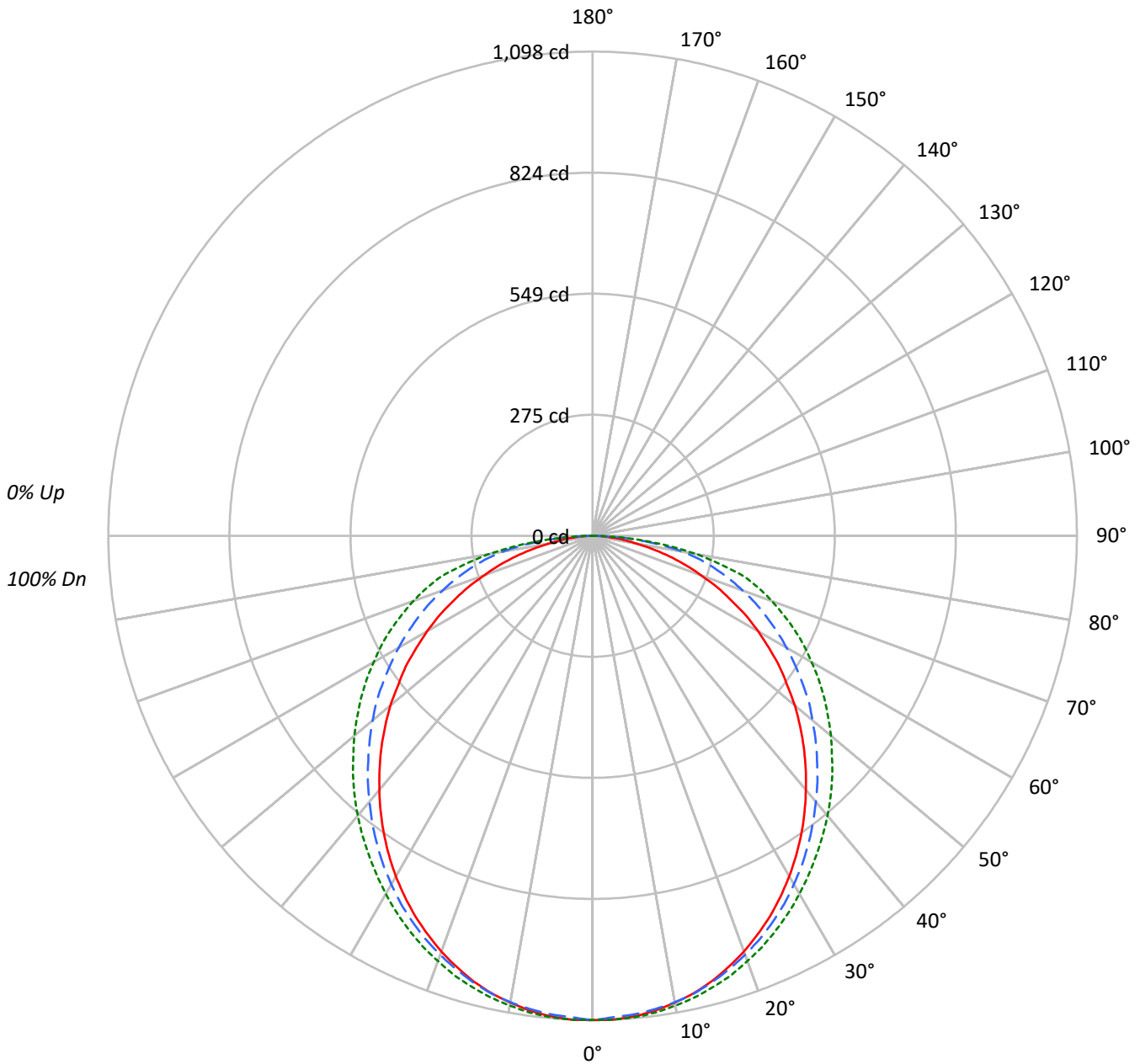
Lumens per Lamp: N/A
Luminaire Lumens: 3271.0 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1550	1550	1550
5°	1550	1544	1553
10°	1541	1539	1550
15°	1528	1531	1547
20°	1507	1518	1541
25°	1482	1505	1535
30°	1454	1487	1528
35°	1422	1469	1523
40°	1386	1450	1526
45°	1351	1436	1534
50°	1314	1429	1549
55°	1273	1426	1577
60°	1223	1433	1618
65°	1159	1454	1688
70°	1077	1491	1784
75°	982	1566	1934
80°	807	1686	1934
85°	619	1556	1661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	3.2
10°-20°	296.5	9.1
20°-30°	446.2	13.6
30°-40°	534.8	16.3
40°-50°	557.3	17.0
50°-60°	518.5	15.9
60°-70°	427.0	13.1
70°-80°	290.8	8.9
80°-90°	96.0	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°	846.6	25.9
0°-40°	1381.4	42.2
0°-60°	2457.1	75.1
0°-90°	3271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3271.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1098	1098	1098	1098	1098	
5°	1094	1094	1090	1095	1096	104
15°	1046	1047	1048	1058	1059	295
25°	952	956	966	982	986	438
35°	825	835	853	876	884	516
45°	677	691	720	755	768	522
55°	518	535	580	626	641	461
65°	347	377	436	487	505	345
75°	180	220	287	338	355	190
85°	38	74	96	103	103	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1098.3	1098.3	1098.3	1098.3	1098.3
2.5°	1098.3	1098.3	1092.8	1098.3	1098.3
5°	1093.8	1093.8	1089.5	1095.0	1096.0
7.5°	1086.2	1087.4	1083.0	1089.5	1090.6
10°	1075.3	1076.4	1074.2	1080.8	1081.8
12.5°	1062.2	1063.3	1063.3	1070.9	1072.1
15°	1045.8	1047.0	1048.0	1057.9	1058.9
17.5°	1025.1	1028.4	1030.5	1042.6	1044.7
20°	1003.3	1006.6	1010.9	1023.9	1026.2
22.5°	978.1	982.5	990.1	1004.3	1007.6
25°	952.0	956.3	966.2	982.5	985.8
27.5°	922.5	929.1	941.0	958.5	962.9
30°	892.0	898.4	912.6	931.2	937.8
32.5°	859.2	867.9	884.2	905.0	911.6
35°	825.3	835.1	852.6	875.5	884.2
37.5°	789.3	800.3	820.9	846.0	857.0
40°	752.2	765.3	787.1	816.6	828.5
42.5°	715.0	727.1	754.3	786.0	799.1
45°	676.8	691.0	719.5	755.4	768.5
47.5°	637.5	651.7	685.5	723.8	735.8
50°	598.3	612.5	650.7	691.0	705.3
52.5°	555.7	574.2	617.9	658.3	672.5
55°	517.5	534.9	579.7	625.5	640.8
57.5°	473.8	494.5	543.7	591.7	608.0
60°	433.4	455.3	507.6	556.7	573.2
62.5°	392.0	415.9	471.6	521.8	540.4
65°	347.1	376.6	435.5	486.8	505.4
67.5°	306.7	337.4	399.6	452.0	468.3
70°	260.9	298.0	361.3	413.8	432.4
72.5°	221.6	258.7	325.3	376.6	395.1
75°	180.1	220.5	287.1	338.4	354.7
77.5°	138.7	183.4	250.0	289.3	294.7
80°	99.3	146.3	207.4	230.4	238.0
82.5°	69.9	112.5	152.9	168.2	172.5
85°	38.2	74.2	96.1	102.6	102.6
87.5°	16.3	31.7	38.2	39.3	40.4
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)