

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: P734161

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734161
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: 24FCZ2-35-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

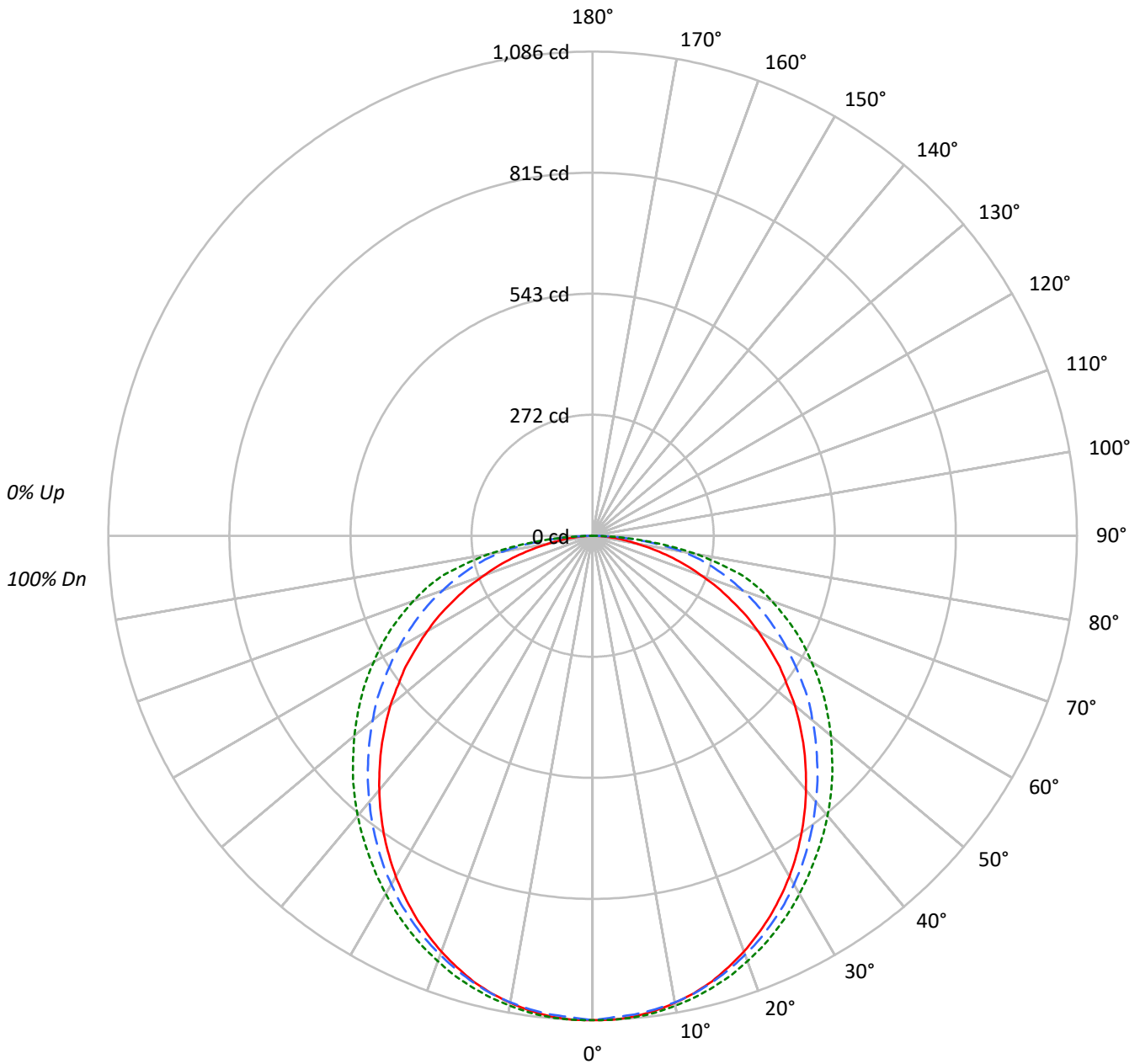
Lumens per Lamp: N/A
Luminaire Lumens: 3236.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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					
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								
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°	1533	1533	1533
5°	1533	1527	1536
10°	1524	1523	1534
15°	1512	1515	1531
20°	1491	1502	1525
25°	1467	1488	1519
30°	1438	1471	1512
35°	1407	1453	1507
40°	1371	1435	1510
45°	1336	1421	1518
50°	1300	1413	1532
55°	1260	1411	1560
60°	1210	1418	1600
65°	1147	1439	1670
70°	1065	1475	1765
75°	972	1549	1913
80°	799	1667	1914
85°	610	1538	1644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	3.2
10°-20°	293.4	9.1
20°-30°	441.5	13.6
30°-40°	529.0	16.3
40°-50°	551.3	17.0
50°-60°	512.9	15.9
60°-70°	422.4	13.1
70°-80°	287.7	8.9
80°-90°	95.0	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°	837.6	25.9
0°-40°	1366.6	42.2
0°-60°	2430.8	75.1
0°-90°	3236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3236.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1086	1086	1086	1086	1086	
5°	1082	1082	1078	1083	1084	103
15°	1035	1036	1037	1047	1048	291
25°	942	946	956	972	975	434
35°	816	826	844	866	875	510
45°	670	684	712	747	760	516
55°	512	529	574	619	634	456
65°	343	372	431	482	500	341
75°	178	218	284	335	351	188
85°	38	73	95	102	102	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1086.5	1086.5	1086.5	1086.5	1086.5
2.5°	1086.5	1086.5	1081.1	1086.5	1086.5
5°	1082.1	1082.1	1077.8	1083.3	1084.3
7.5°	1074.6	1075.7	1071.4	1077.8	1079.0
10°	1063.7	1064.9	1062.7	1069.2	1070.3
12.5°	1050.9	1051.9	1051.9	1059.5	1060.6
15°	1034.6	1035.8	1036.8	1046.6	1047.6
17.5°	1014.2	1017.4	1019.5	1031.5	1033.5
20°	992.5	995.8	1000.1	1013.0	1015.2
22.5°	967.7	972.0	979.5	993.6	996.8
25°	941.8	946.1	955.8	972.0	975.2
27.5°	912.6	919.1	931.0	948.3	952.6
30°	882.4	888.8	902.9	921.2	927.7
32.5°	850.0	858.6	874.7	895.3	901.8
35°	816.4	826.2	843.5	866.1	874.7
37.5°	780.9	791.7	812.1	837.0	847.8
40°	744.2	757.1	778.7	807.8	819.7
42.5°	707.3	719.3	746.3	777.6	790.5
45°	669.6	683.7	711.8	747.3	760.3
47.5°	630.7	644.7	678.2	716.1	727.9
50°	591.9	605.9	643.7	683.7	697.7
52.5°	549.7	568.1	611.3	651.2	665.3
55°	512.0	529.1	573.5	618.8	633.9
57.5°	468.7	489.2	537.9	585.4	601.5
60°	428.8	450.4	502.2	550.7	567.0
62.5°	387.8	411.5	466.5	516.3	534.6
65°	343.4	372.5	430.9	481.6	500.0
67.5°	303.4	333.8	395.3	447.1	463.3
70°	258.1	294.8	357.4	409.4	427.7
72.5°	219.2	255.9	321.8	372.5	390.9
75°	178.2	218.2	284.0	334.8	350.9
77.5°	137.2	181.5	247.3	286.2	291.6
80°	98.3	144.7	205.1	227.9	235.5
82.5°	69.1	111.3	151.3	166.4	170.7
85°	37.7	73.4	95.0	101.5	101.5
87.5°	16.1	31.4	37.7	38.9	40.0
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)