

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: P734164

Luminaire Tested: **24FCZ2-35-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734164
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-CA08-4000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

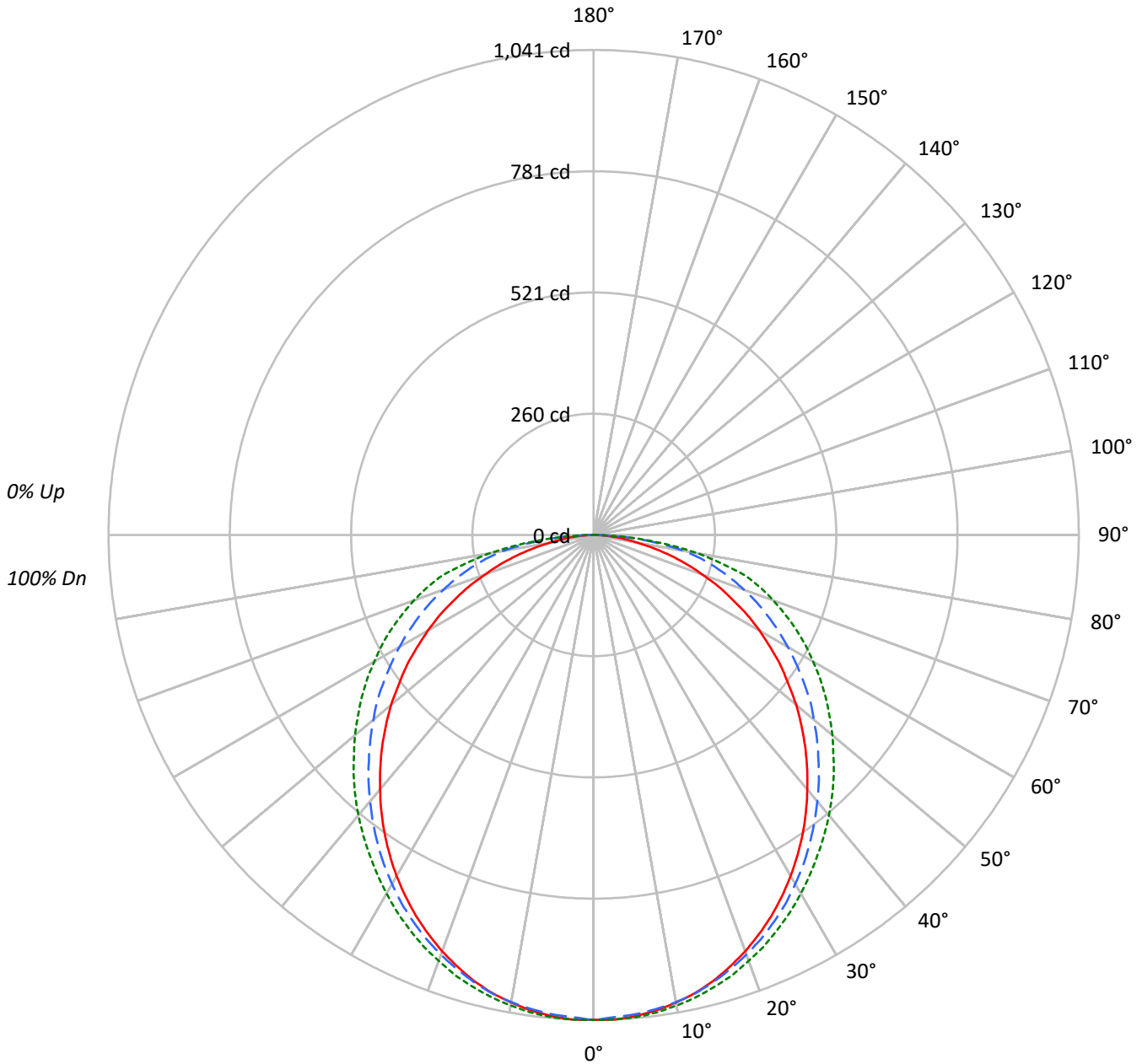
Lumens per Lamp: N/A
Luminaire Lumens: 3101.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P734164

CATALOG NUMBER: 24FCZ2-35-B2750-W2D-CA08-4000K

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°	1469	1469	1469
5°	1469	1463	1472
10°	1461	1459	1470
15°	1449	1452	1467
20°	1428	1439	1461
25°	1405	1426	1455
30°	1378	1410	1449
35°	1348	1393	1444
40°	1314	1375	1447
45°	1281	1361	1454
50°	1245	1354	1468
55°	1207	1352	1495
60°	1160	1358	1534
65°	1099	1379	1600
70°	1021	1413	1691
75°	931	1484	1834
80°	766	1598	1834
85°	586	1475	1576



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	3.2
10°-20°	281.1	9.1
20°-30°	423.0	13.6
30°-40°	507.0	16.3
40°-50°	528.3	17.0
50°-60°	491.5	15.9
60°-70°	404.8	13.1
70°-80°	275.7	8.9
80°-90°	91.0	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°	802.6	25.9
0°-40°	1309.6	42.2
0°-60°	2329.4	75.1
0°-90°	3101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1041	1041	1041	1041	1041	
5°	1037	1037	1033	1038	1039	98
15°	991	992	994	1003	1004	279
25°	902	907	916	931	934	415
35°	782	792	808	830	838	489
45°	642	655	682	716	729	495
55°	491	507	550	593	608	437
65°	329	357	413	462	479	327
75°	171	209	272	321	336	180
85°	36	70	91	97	97	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1041.2	1041.2	1041.2	1041.2	1041.2
2.5°	1041.2	1041.2	1036.0	1041.2	1041.2
5°	1037.0	1037.0	1032.8	1038.1	1039.1
7.5°	1029.7	1030.8	1026.7	1032.8	1034.0
10°	1019.4	1020.5	1018.4	1024.6	1025.6
12.5°	1007.0	1008.0	1008.0	1015.3	1016.4
15°	991.4	992.5	993.5	1002.9	1003.9
17.5°	971.8	975.0	977.0	988.4	990.4
20°	951.1	954.3	958.4	970.7	972.8
22.5°	927.3	931.4	938.7	952.1	955.3
25°	902.5	906.6	916.0	931.4	934.5
27.5°	874.5	880.8	892.1	908.7	912.8
30°	845.6	851.7	865.2	882.8	889.0
32.5°	814.5	822.8	838.2	858.0	864.2
35°	782.4	791.7	808.3	830.0	838.2
37.5°	748.3	758.7	778.2	802.1	812.4
40°	713.1	725.5	746.2	774.1	785.5
42.5°	677.8	689.3	715.1	745.2	757.5
45°	641.7	655.1	682.1	716.1	728.6
47.5°	604.4	617.8	649.9	686.2	697.5
50°	567.2	580.7	616.8	655.1	668.6
52.5°	526.8	544.4	585.8	624.1	637.5
55°	490.6	507.1	549.6	593.0	607.5
57.5°	449.2	468.8	515.4	561.0	576.4
60°	410.9	431.6	481.2	527.8	543.4
62.5°	371.6	394.3	447.1	494.7	512.3
65°	329.1	357.0	412.9	461.5	479.1
67.5°	290.8	319.8	378.8	428.5	443.9
70°	247.4	282.5	342.5	392.3	409.9
72.5°	210.1	245.2	308.4	357.0	374.6
75°	170.8	209.1	272.2	320.8	336.3
77.5°	131.5	173.9	237.0	274.3	279.4
80°	94.2	138.7	196.6	218.4	225.7
82.5°	66.2	106.7	144.9	159.4	163.5
85°	36.2	70.4	91.1	97.3	97.3
87.5°	15.5	30.1	36.2	37.3	38.3
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)