

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: P734304

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734304
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-CP250-4000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

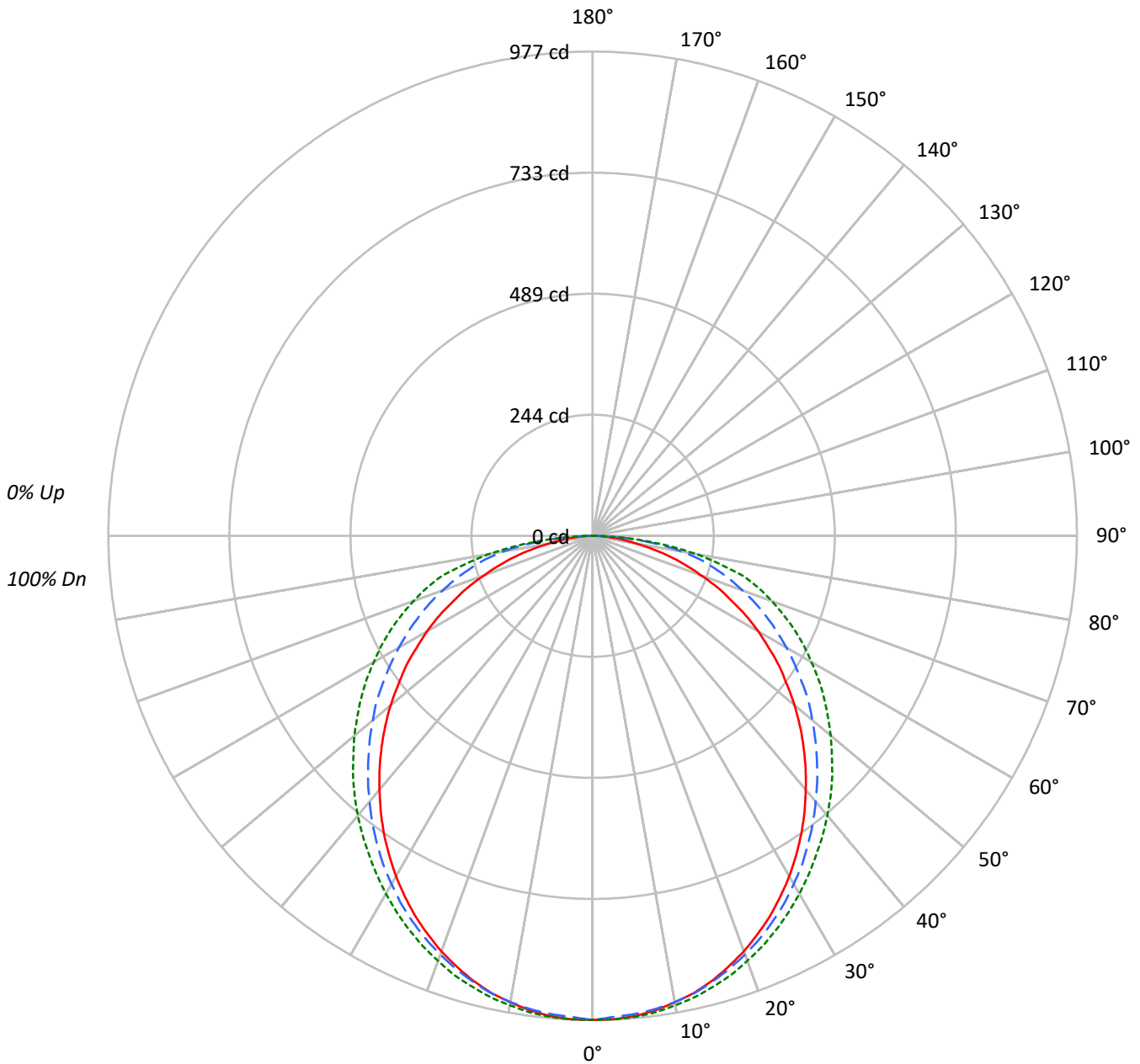
Lumens per Lamp: N/A
Luminaire Lumens: 2909.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
Input Voltage (V): NR
Input Current (Ain): 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°	1378	1378	1378
5°	1378	1373	1381
10°	1370	1369	1379
15°	1359	1362	1376
20°	1340	1350	1371
25°	1318	1338	1365
30°	1293	1323	1359
35°	1264	1306	1355
40°	1233	1290	1357
45°	1201	1277	1364
50°	1168	1270	1377
55°	1132	1269	1402
60°	1088	1274	1439
65°	1031	1293	1501
70°	957	1326	1587
75°	874	1392	1720
80°	718	1499	1721
85°	549	1383	1478



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	3.2
10°-20°	263.7	9.1
20°-30°	396.8	13.6
30°-40°	475.6	16.3
40°-50°	495.6	17.0
50°-60°	461.1	15.9
60°-70°	379.8	13.1
70°-80°	258.6	8.9
80°-90°	85.4	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°	752.9	25.9
0°-40°	1228.5	42.2
0°-60°	2185.2	75.1
0°-90°	2909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2909.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	977	977	977	977	977	
5°	973	973	969	974	975	92
15°	930	931	932	941	942	262
25°	847	850	859	874	877	390
35°	734	743	758	779	786	459
45°	602	615	640	672	684	464
55°	460	476	516	556	570	410
65°	309	335	387	433	450	306
75°	160	196	255	301	316	169
85°	34	66	85	91	91	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	976.7	976.7	976.7	976.7	976.7
2.5°	976.7	976.7	971.8	976.7	976.7
5°	972.8	972.8	968.9	973.8	974.7
7.5°	966.0	967.0	963.2	968.9	969.9
10°	956.3	957.3	955.3	961.2	962.1
12.5°	944.7	945.6	945.6	952.4	953.4
15°	930.0	931.1	932.0	940.8	941.7
17.5°	911.7	914.6	916.5	927.2	929.1
20°	892.2	895.2	899.0	910.6	912.6
22.5°	869.9	873.8	880.5	893.2	896.1
25°	846.6	850.5	859.2	873.8	876.7
27.5°	820.4	826.2	836.9	852.5	856.3
30°	793.3	799.0	811.6	828.1	834.0
32.5°	764.1	771.8	786.3	804.8	810.7
35°	733.9	742.7	758.3	778.6	786.3
37.5°	702.0	711.7	730.1	752.4	762.1
40°	669.0	680.6	700.0	726.2	736.8
42.5°	635.9	646.6	670.9	699.1	710.6
45°	601.9	614.6	639.8	671.8	683.5
47.5°	566.9	579.6	609.7	643.7	654.4
50°	532.1	544.7	578.6	614.6	627.2
52.5°	494.2	510.7	549.5	585.4	598.1
55°	460.2	475.7	515.6	556.3	569.9
57.5°	421.4	439.7	483.5	526.2	540.7
60°	385.5	404.9	451.4	495.1	509.7
62.5°	348.6	369.9	419.4	464.1	480.6
65°	308.7	334.9	387.3	433.0	449.5
67.5°	272.8	300.0	355.4	401.9	416.5
70°	232.0	265.0	321.3	368.0	384.5
72.5°	197.1	230.1	289.3	334.9	351.4
75°	160.2	196.1	255.3	301.0	315.5
77.5°	123.3	163.1	222.3	257.3	262.1
80°	88.3	130.1	184.4	204.9	211.7
82.5°	62.1	100.0	136.0	149.5	153.4
85°	33.9	66.0	85.4	91.3	91.3
87.5°	14.5	28.2	33.9	35.0	35.9
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)