

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: P733926

Luminaire Tested: **24FCZ2-30-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733926
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: 24FCZ2-30-B2750-W2D-CP250-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

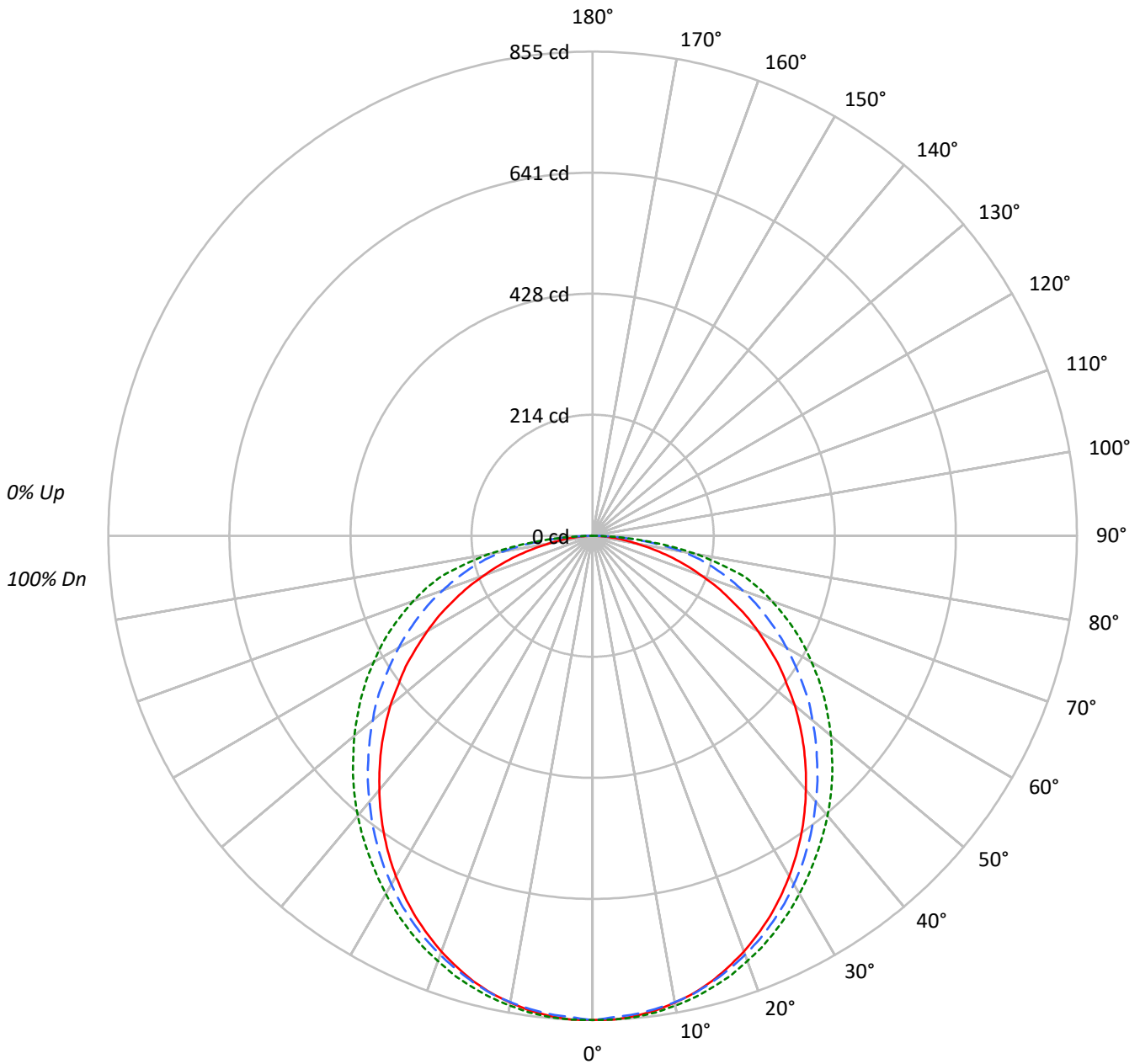
Lumens per Lamp: N/A
Luminaire Lumens: 2547.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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°	1207	1207	1207
5°	1207	1202	1209
10°	1200	1199	1207
15°	1190	1192	1205
20°	1173	1182	1200
25°	1154	1172	1195
30°	1132	1158	1190
35°	1107	1144	1186
40°	1079	1129	1189
45°	1052	1118	1194
50°	1023	1112	1206
55°	992	1111	1228
60°	953	1116	1260
65°	903	1132	1314
70°	839	1161	1389
75°	765	1219	1506
80°	629	1313	1506
85°	481	1211	1294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.2
10°-20°	230.9	9.1
20°-30°	347.5	13.6
30°-40°	416.4	16.3
40°-50°	433.9	17.0
50°-60°	403.7	15.9
60°-70°	332.5	13.1
70°-80°	226.5	8.9
80°-90°	74.8	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°	659.2	25.9
0°-40°	1075.6	42.2
0°-60°	1913.3	75.1
0°-90°	2547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2547.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	852	852	848	853	853	81
15°	814	815	816	824	825	229
25°	741	745	752	765	768	341
35°	643	650	664	682	688	402
45°	527	538	560	588	598	406
55°	403	416	451	487	499	359
65°	270	293	339	379	394	268
75°	140	172	224	264	276	148
85°	30	58	75	80	80	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	855.2	855.2	855.2	855.2	855.2
2.5°	855.2	855.2	850.9	855.2	855.2
5°	851.7	851.7	848.3	852.6	853.4
7.5°	845.8	846.7	843.3	848.3	849.2
10°	837.3	838.2	836.4	841.6	842.4
12.5°	827.1	827.9	827.9	833.9	834.8
15°	814.3	815.2	816.0	823.7	824.6
17.5°	798.2	800.8	802.4	811.8	813.5
20°	781.2	783.8	787.2	797.3	799.0
22.5°	761.6	765.0	771.0	782.0	784.6
25°	741.3	744.6	752.3	765.0	767.6
27.5°	718.3	723.4	732.8	746.4	749.8
30°	694.5	699.6	710.6	725.1	730.2
32.5°	669.0	675.8	688.5	704.7	709.8
35°	642.6	650.3	663.9	681.7	688.5
37.5°	614.6	623.1	639.2	658.8	667.3
40°	585.7	595.9	612.9	635.8	645.2
42.5°	556.7	566.2	587.4	612.1	622.2
45°	527.0	538.1	560.2	588.2	598.4
47.5°	496.4	507.5	533.8	563.6	572.9
50°	465.9	476.9	506.6	538.1	549.2
52.5°	432.7	447.1	481.1	512.6	523.6
55°	403.0	416.5	451.4	487.1	499.0
57.5°	368.9	385.0	423.3	460.7	473.4
60°	337.5	354.5	395.3	433.5	446.3
62.5°	305.2	323.9	367.2	406.3	420.8
65°	270.3	293.2	339.1	379.1	393.5
67.5°	238.8	262.7	311.2	351.9	364.6
70°	203.2	232.1	281.3	322.2	336.7
72.5°	172.5	201.4	253.3	293.2	307.7
75°	140.3	171.7	223.6	263.5	276.2
77.5°	108.0	142.8	194.7	225.3	229.5
80°	77.4	113.9	161.5	179.4	185.3
82.5°	54.4	87.6	119.1	130.9	134.3
85°	29.7	57.8	74.8	79.9	79.9
87.5°	12.7	24.7	29.7	30.6	31.5
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)