

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: P734051

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734051
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: 24FCZ2-30HE-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

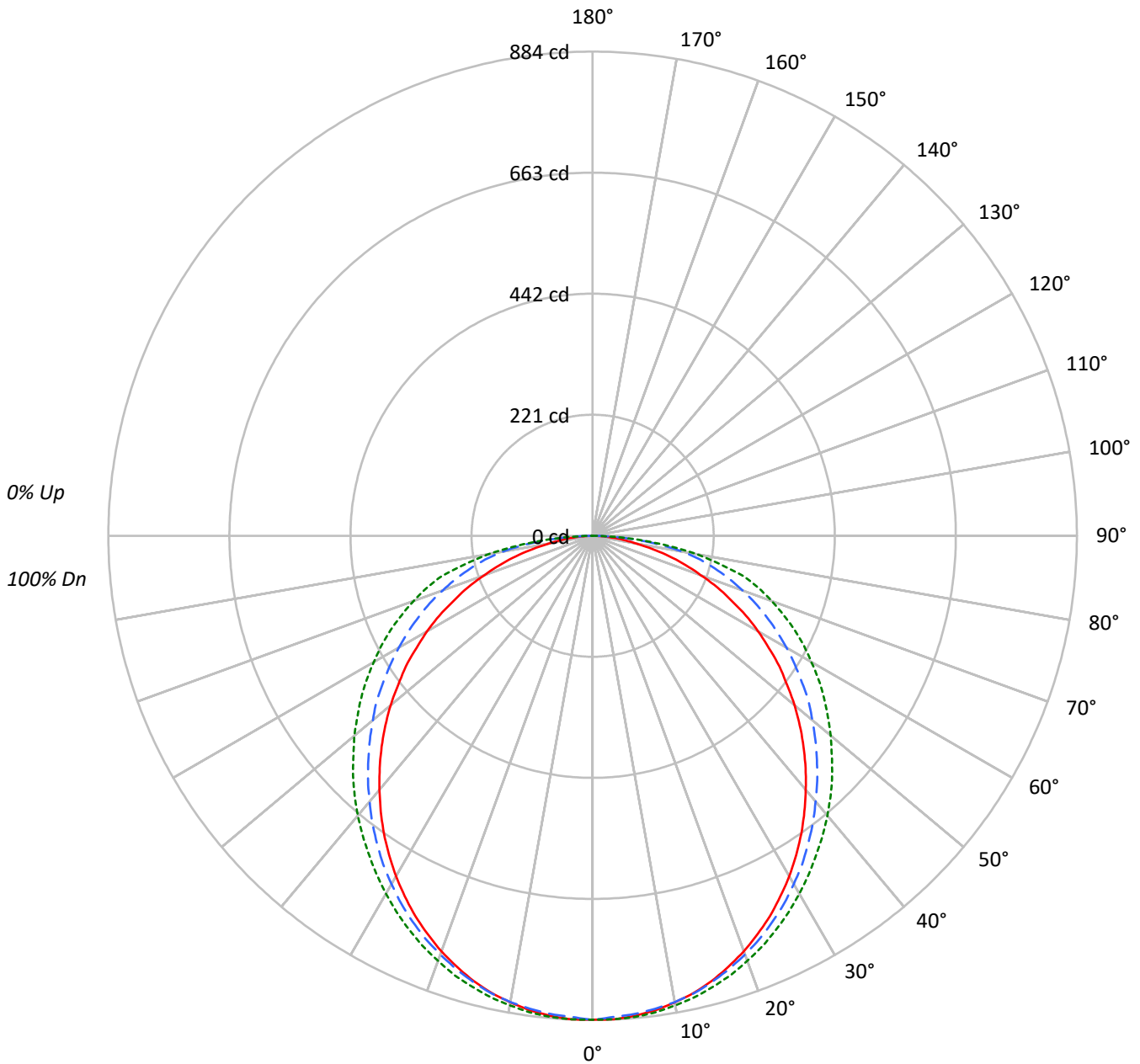
Lumens per Lamp: N/A
Luminaire Lumens: 2632.0 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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: P734051

CATALOG NUMBER: 24FCZ2-30HE-B2750-W2D-CP250-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P734051

CATALOG NUMBER: 24FCZ2-30HE-B2750-W2D-CP250-2700K

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°	1247	1247	1247
5°	1247	1242	1249
10°	1240	1239	1248
15°	1230	1232	1245
20°	1212	1222	1240
25°	1193	1211	1235
30°	1170	1197	1230
35°	1144	1182	1226
40°	1115	1167	1228
45°	1087	1155	1234
50°	1057	1149	1246
55°	1025	1148	1269
60°	984	1153	1302
65°	933	1170	1358
70°	866	1200	1436
75°	790	1260	1556
80°	649	1356	1556
85°	497	1252	1338



TEST NUMBER: P734051

CATALOG NUMBER: 24FCZ2-30HE-B2750-W2D-CP250-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	3.2
10°-20°	238.6	9.1
20°-30°	359.1	13.6
30°-40°	430.3	16.3
40°-50°	448.4	17.0
50°-60°	417.2	15.9
60°-70°	343.6	13.1
70°-80°	234.0	8.9
80°-90°	77.3	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°	681.2	25.9
0°-40°	1111.5	42.2
0°-60°	1977.1	75.1
0°-90°	2632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	880	880	877	881	882	84
15°	842	842	843	851	852	237
25°	766	770	777	791	793	353
35°	664	672	686	704	712	415
45°	545	556	579	608	618	420
55°	416	430	466	503	516	371
65°	279	303	350	392	407	277
75°	145	177	231	272	285	153
85°	31	60	77	83	83	38
90°	0	0	0	0	0	



TEST NUMBER: P734051

CATALOG NUMBER: 24FCZ2-30HE-B2750-W2D-CP250-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	883.7	883.7	883.7	883.7	883.7
2.5°	883.7	883.7	879.3	883.7	883.7
5°	880.1	880.1	876.6	881.1	881.9
7.5°	874.0	874.9	871.4	876.6	877.6
10°	865.2	866.2	864.4	869.6	870.5
12.5°	854.7	855.6	855.6	861.7	862.7
15°	841.5	842.4	843.3	851.2	852.1
17.5°	824.9	827.5	829.2	838.9	840.6
20°	807.3	809.9	813.4	823.9	825.7
22.5°	787.1	790.6	796.7	808.1	810.8
25°	766.0	769.5	777.4	790.6	793.2
27.5°	742.3	747.6	757.2	771.3	774.8
30°	717.7	722.9	734.3	749.3	754.6
32.5°	691.4	698.3	711.5	728.2	733.5
35°	664.0	672.0	686.1	704.5	711.5
37.5°	635.1	643.9	660.5	680.8	689.6
40°	605.3	615.8	633.3	657.1	666.7
42.5°	575.3	585.1	607.0	632.5	643.0
45°	544.6	556.0	578.9	607.8	618.4
47.5°	513.0	524.4	551.6	582.4	592.0
50°	481.4	492.8	523.5	556.0	567.5
52.5°	447.1	462.0	497.2	529.7	541.1
55°	416.4	430.4	466.5	503.3	515.6
57.5°	381.3	397.9	437.5	476.1	489.2
60°	348.7	366.3	408.5	448.0	461.2
62.5°	315.4	334.7	379.5	419.9	434.8
65°	279.3	303.0	350.4	391.7	406.7
67.5°	246.8	271.5	321.5	363.7	376.8
70°	209.9	239.8	290.7	333.0	347.9
72.5°	178.3	208.1	261.7	303.0	317.9
75°	144.9	177.4	231.0	272.3	285.4
77.5°	111.6	147.6	201.2	232.8	237.2
80°	79.9	117.7	166.9	185.4	191.5
82.5°	56.2	90.5	123.0	135.3	138.8
85°	30.7	59.7	77.3	82.6	82.6
87.5°	13.1	25.5	30.7	31.7	32.5
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)