

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: P733988

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30-S-B2750-W2D-CA08-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

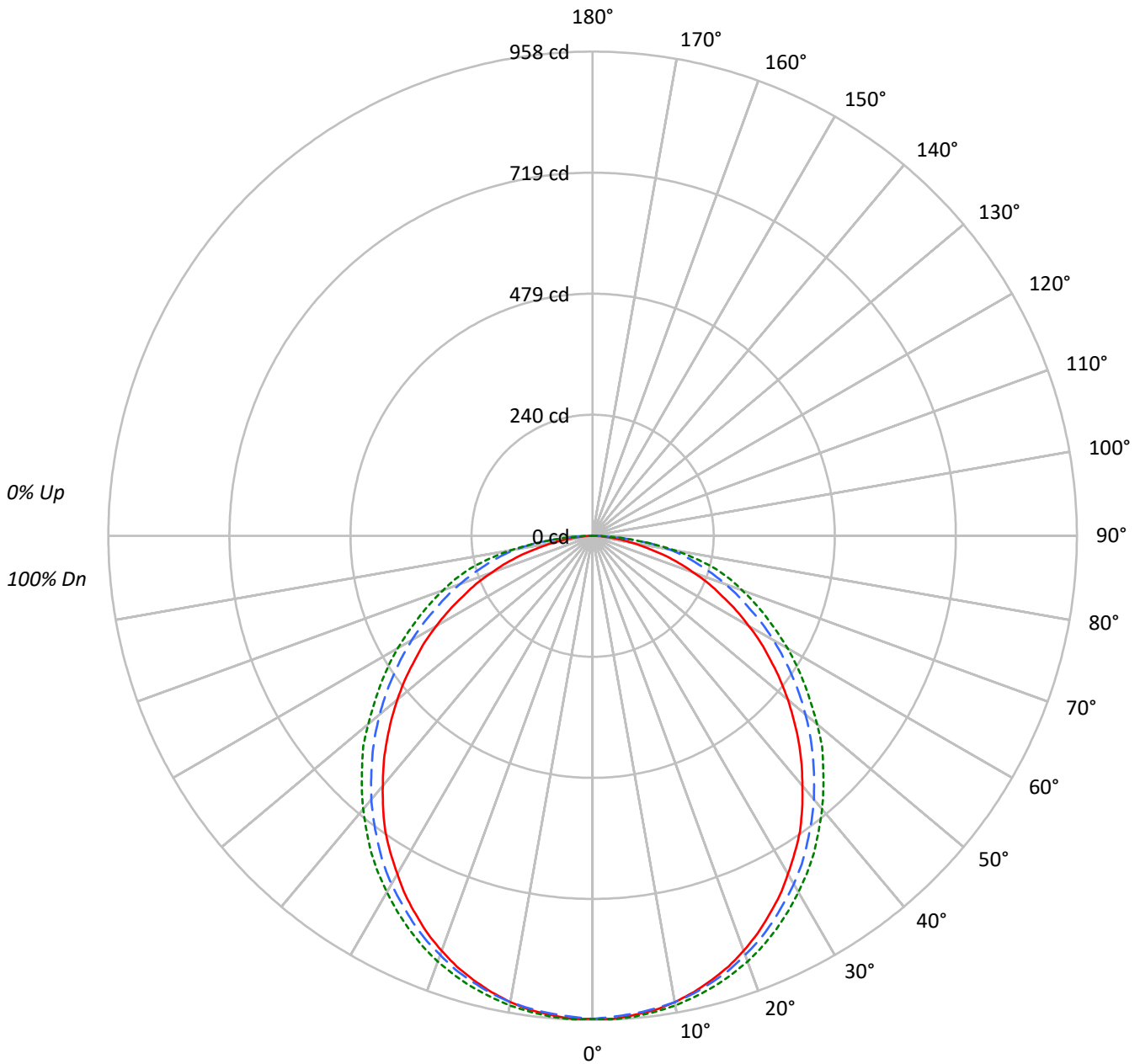
Lumens per Lamp: N/A
Luminaire Lumens: 2721.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.27 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P733988

CATALOG NUMBER: 24FCZ2-30-S-B2750-W2D-CA08-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P733988

CATALOG NUMBER: 24FCZ2-30-S-B2750-W2D-CA08-3500K

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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1349	1349	1349
5°	1348	1344	1353
10°	1343	1343	1353
15°	1330	1336	1350
20°	1312	1325	1346
25°	1288	1312	1338
30°	1259	1297	1327
35°	1232	1276	1316
40°	1189	1255	1301
45°	1151	1230	1287
50°	1106	1207	1272
55°	1057	1185	1259
60°	1008	1166	1256
65°	944	1146	1264
70°	874	1152	1298
75°	783	1173	1371
80°	632	1244	1342
85°	476	1091	1064



TEST NUMBER: P733988

CATALOG NUMBER: 24FCZ2-30-S-B2750-W2D-CA08-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	3.3
10°-20°	258.6	9.5
20°-30°	388.7	14.3
30°-40°	463.0	17.0
40°-50°	473.9	17.4
50°-60°	426.6	15.7
60°-70°	335.0	12.3
70°-80°	217.4	8.0
80°-90°	67.3	2.5
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°	737.8	27.1
0°-40°	1200.8	44.1
0°-60°	2101.3	77.2
0°-90°	2721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	952	953	949	954	955	90
15°	910	913	914	922	924	257
25°	827	834	843	856	859	381
35°	715	723	741	759	764	446
45°	576	590	616	640	645	444
55°	430	449	481	506	512	385
65°	283	304	343	372	378	281
75°	144	171	215	245	252	152
85°	29	54	67	66	66	35
90°	0	0	0	0	0	



TEST NUMBER: P733988

CATALOG NUMBER: 24FCZ2-30-S-B2750-W2D-CA08-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	955.9	955.9	955.9	955.9	955.9
2.5°	956.8	956.8	952.4	956.8	957.6
5°	951.6	953.3	949.0	954.2	955.0
7.5°	946.4	946.4	943.8	949.0	949.9
10°	936.9	937.7	936.9	942.9	943.8
12.5°	924.8	926.5	927.4	933.5	934.3
15°	910.1	912.7	914.4	922.2	924.0
17.5°	893.7	896.3	900.6	909.2	911.0
20°	873.8	877.2	882.4	893.7	896.3
22.5°	852.2	855.7	864.3	874.6	879.0
25°	827.1	834.0	842.7	856.5	859.1
27.5°	802.0	808.1	819.3	834.0	837.5
30°	772.7	782.2	796.0	810.7	814.1
32.5°	744.1	753.6	770.1	785.7	790.0
35°	714.8	723.4	740.7	758.8	764.0
37.5°	681.0	692.3	711.3	729.5	734.7
40°	645.6	659.5	681.0	700.1	706.1
42.5°	611.9	626.6	648.2	669.0	675.8
45°	576.5	590.3	616.3	639.6	644.8
47.5°	540.1	555.8	583.4	606.7	615.3
50°	503.9	520.4	549.7	573.9	579.1
52.5°	467.6	484.8	516.0	541.9	544.5
55°	429.6	448.6	481.4	506.5	511.7
57.5°	395.0	411.4	446.8	472.8	478.8
60°	357.0	375.1	413.1	437.4	445.1
62.5°	320.6	339.7	379.5	403.6	410.5
65°	282.6	304.3	343.1	371.7	378.5
67.5°	249.8	270.5	312.0	339.7	346.6
70°	211.7	235.1	279.2	307.7	314.6
72.5°	178.9	203.1	247.2	274.8	285.2
75°	143.5	171.1	215.2	244.6	251.5
77.5°	108.9	140.9	185.8	208.3	208.3
80°	77.8	111.5	153.0	163.4	165.1
82.5°	51.0	83.8	113.2	112.4	112.4
85°	29.4	54.5	67.4	65.7	65.7
87.5°	11.2	22.5	24.2	24.2	23.3
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)