

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: P734016

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30-SQR-B2750-W2D-CA125-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SQR LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

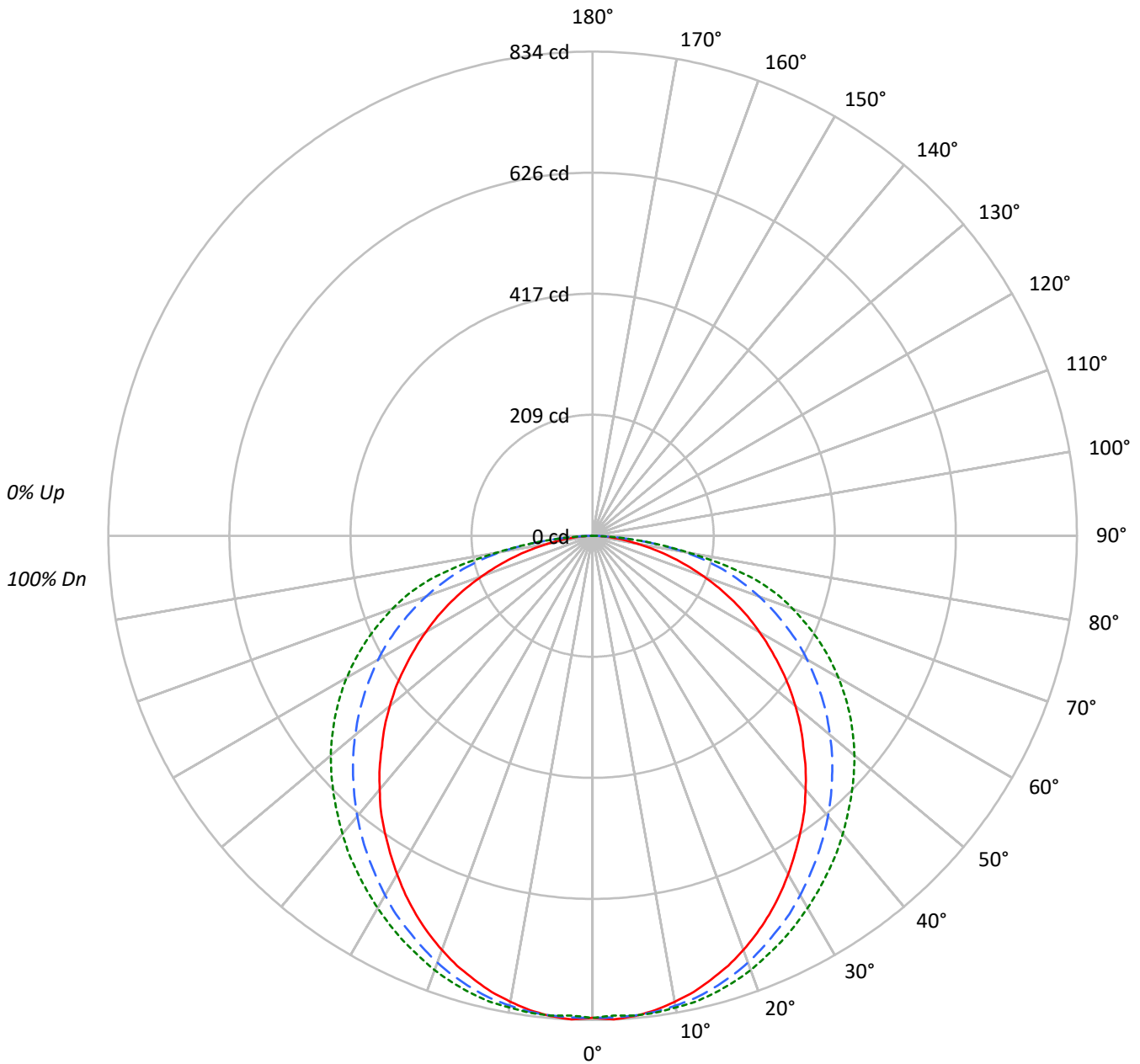
Lumens per Lamp: N/A
Luminaire Lumens: 2598.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1172	1172	1172
5°	1176	1175	1175
10°	1168	1178	1183
15°	1156	1178	1191
20°	1140	1175	1196
25°	1121	1169	1200
30°	1097	1165	1207
35°	1075	1162	1218
40°	1051	1162	1235
45°	1024	1164	1259
50°	1000	1172	1292
55°	971	1184	1332
60°	937	1204	1380
65°	897	1226	1438
70°	832	1257	1512
75°	753	1301	1581
80°	634	1304	1359
85°	486	986	986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	3.0
10°-20°	226.8	8.7
20°-30°	344.5	13.3
30°-40°	419.0	16.1
40°-50°	446.1	17.2
50°-60°	424.9	16.4
60°-70°	355.3	13.7
70°-80°	236.9	9.1
80°-90°	65.5	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°	650.1	25.0
0°-40°	1069.1	41.2
0°-60°	1940.2	74.7
0°-90°	2598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2598.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	830	825	830	830	830	79
15°	791	793	806	812	815	223
25°	720	729	751	764	770	331
35°	624	642	674	697	707	390
45°	513	540	583	616	631	397
55°	395	429	481	523	541	353
65°	268	308	367	413	431	265
75°	138	182	238	279	290	146
85°	30	56	61	60	61	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.4	830.4	830.4	830.4	830.4
2.5°	833.9	827.8	830.4	830.4	827.1
5°	830.4	825.3	829.6	829.6	829.6
7.5°	824.5	820.1	827.1	828.7	828.7
10°	815.0	813.3	821.9	824.5	825.3
12.5°	804.8	803.9	815.9	819.3	821.9
15°	790.9	792.7	806.4	812.5	815.0
17.5°	776.4	779.8	795.3	803.9	806.4
20°	759.3	764.4	782.5	790.9	796.2
22.5°	740.4	748.1	767.0	777.2	783.2
25°	719.8	729.2	750.7	763.5	770.4
27.5°	697.5	709.5	734.4	748.9	755.8
30°	673.4	687.1	714.7	731.8	740.4
32.5°	648.6	664.8	694.9	713.8	724.0
35°	623.7	641.8	674.3	696.6	706.9
37.5°	598.8	616.8	652.9	676.9	689.8
40°	570.5	591.9	630.6	657.1	670.1
42.5°	543.1	566.2	607.4	636.5	650.3
45°	513.0	540.5	583.3	616.0	630.6
47.5°	485.6	513.0	559.4	593.7	610.0
50°	455.6	484.7	533.6	571.4	588.6
52.5°	426.4	456.5	507.9	548.2	565.4
55°	394.7	428.9	481.3	523.3	541.3
57.5°	362.9	399.8	453.8	497.6	515.7
60°	332.0	369.7	426.4	470.2	489.0
62.5°	301.1	338.8	398.0	442.6	460.7
65°	268.5	307.9	367.1	412.6	430.7
67.5°	235.9	277.1	336.3	381.8	398.9
70°	201.6	245.4	304.6	349.2	366.4
72.5°	169.9	213.6	271.9	315.7	332.0
75°	138.1	181.8	238.5	278.8	290.0
77.5°	107.3	151.0	201.6	228.2	230.8
80°	78.0	119.3	160.4	168.1	167.2
82.5°	52.3	89.2	110.7	111.5	114.1
85°	30.0	55.7	60.9	60.1	60.9
87.5°	12.0	19.7	17.2	12.8	12.8
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)