

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: P734017

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734017
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-CA125-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SQR LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

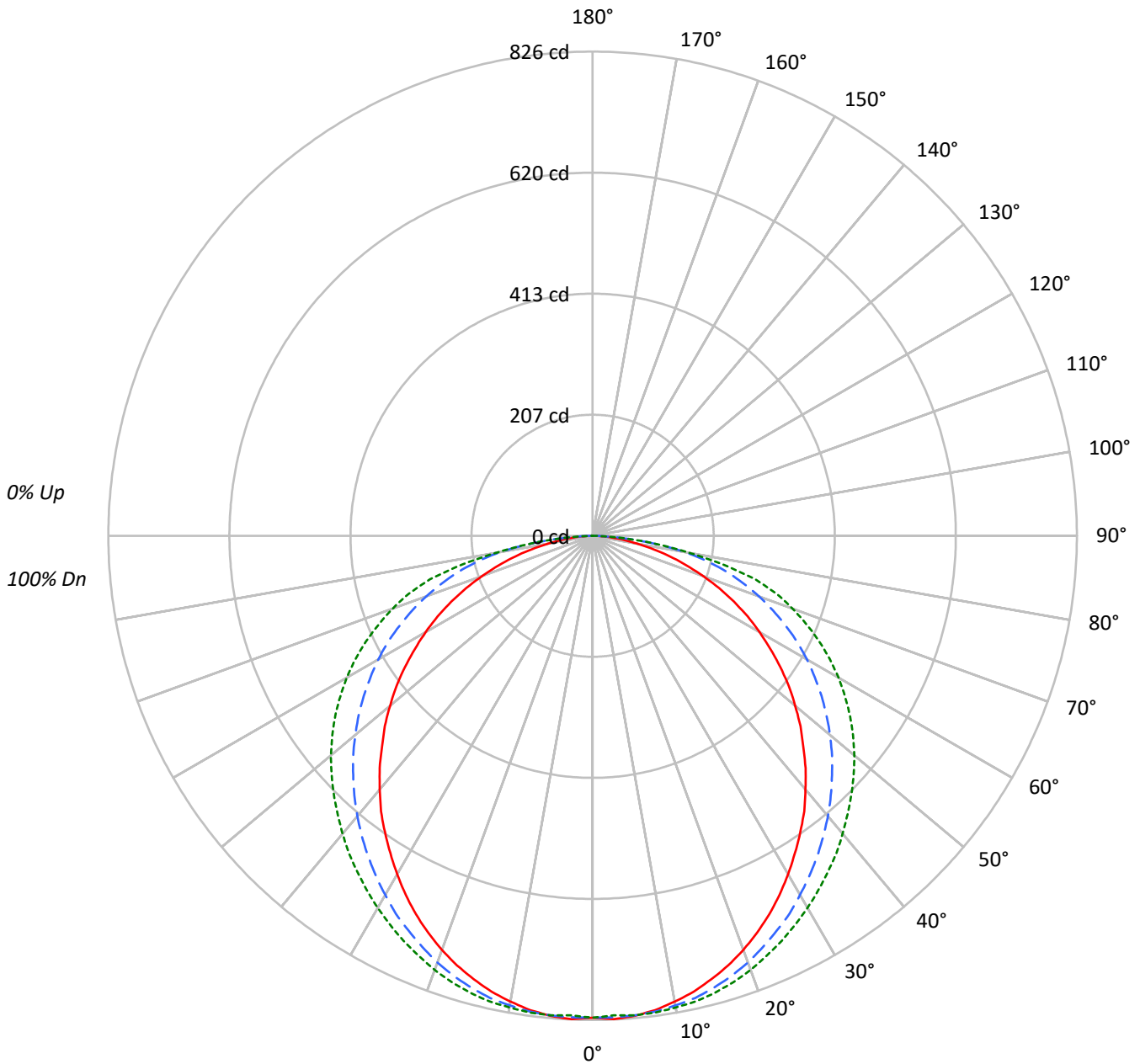
Lumens per Lamp: N/A
Luminaire Lumens: 2572.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P734017

CATALOG NUMBER: 24FCZ2-30-SQR-B2750-W2D-CA125-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P734017

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82					82			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67					67			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56					56			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47					47			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41					41			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35					35			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28					28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25					25			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1160	1160	1160
5°	1165	1164	1164
10°	1156	1166	1171
15°	1144	1167	1179
20°	1129	1163	1184
25°	1110	1157	1188
30°	1087	1153	1195
35°	1064	1150	1206
40°	1041	1150	1222
45°	1014	1153	1246
50°	990	1160	1279
55°	961	1172	1319
60°	928	1191	1366
65°	888	1214	1424
70°	824	1245	1497
75°	746	1287	1566
80°	628	1291	1346
85°	481	976	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	3.0
10°-20°	224.5	8.7
20°-30°	341.0	13.3
30°-40°	414.8	16.1
40°-50°	441.7	17.2
50°-60°	420.7	16.4
60°-70°	351.8	13.7
70°-80°	234.6	9.1
80°-90°	64.9	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°	643.6	25.0
0°-40°	1058.5	41.2
0°-60°	1920.8	74.7
0°-90°	2572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	822	822	822	822	822	
5°	822	817	821	821	821	78
15°	783	785	798	804	807	221
25°	713	722	743	756	763	328
35°	618	635	668	690	700	386
45°	508	535	578	610	624	393
55°	391	425	476	518	536	349
65°	266	305	364	408	426	263
75°	137	180	236	276	287	145
85°	30	55	60	60	60	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	822.1	822.1	822.1	822.1	822.1
2.5°	825.5	819.6	822.1	822.1	818.8
5°	822.1	817.0	821.3	821.3	821.3
7.5°	816.2	811.9	818.8	820.4	820.4
10°	806.9	805.2	813.7	816.2	817.0
12.5°	796.7	795.8	807.7	811.1	813.7
15°	783.0	784.8	798.4	804.3	806.9
17.5°	768.7	772.0	787.3	795.8	798.4
20°	751.7	756.7	774.6	783.0	788.2
22.5°	733.0	740.6	759.3	769.4	775.4
25°	712.6	721.9	743.2	755.9	762.7
27.5°	690.5	702.4	727.1	741.4	748.2
30°	666.7	680.3	707.5	724.5	733.0
32.5°	642.1	658.2	688.0	706.6	716.8
35°	617.5	635.3	667.6	689.6	699.8
37.5°	592.8	610.6	646.4	670.1	682.9
40°	564.8	586.0	624.3	650.6	663.4
42.5°	537.6	560.5	601.3	630.1	643.8
45°	507.8	535.1	577.5	609.8	624.3
47.5°	480.7	507.8	553.8	587.8	603.9
50°	451.0	479.8	528.3	565.7	582.7
52.5°	422.1	451.9	502.8	542.7	559.7
55°	390.7	424.6	476.5	518.1	535.9
57.5°	359.3	395.8	449.2	492.6	510.5
60°	328.7	366.0	422.1	465.5	484.1
62.5°	298.1	335.4	394.0	438.2	456.1
65°	265.8	304.9	363.5	408.5	426.4
67.5°	233.6	274.3	332.9	377.9	394.9
70°	199.6	242.9	301.6	345.7	362.7
72.5°	168.2	211.5	269.2	312.6	328.7
75°	136.8	180.0	236.1	276.1	287.1
77.5°	106.2	149.5	199.6	225.9	228.5
80°	77.3	118.1	158.8	166.4	165.6
82.5°	51.8	88.3	109.6	110.4	112.9
85°	29.7	55.2	60.3	59.5	60.3
87.5°	11.9	19.5	17.0	12.7	12.7
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)