

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: P734013

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734013
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-CA08-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SQR LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

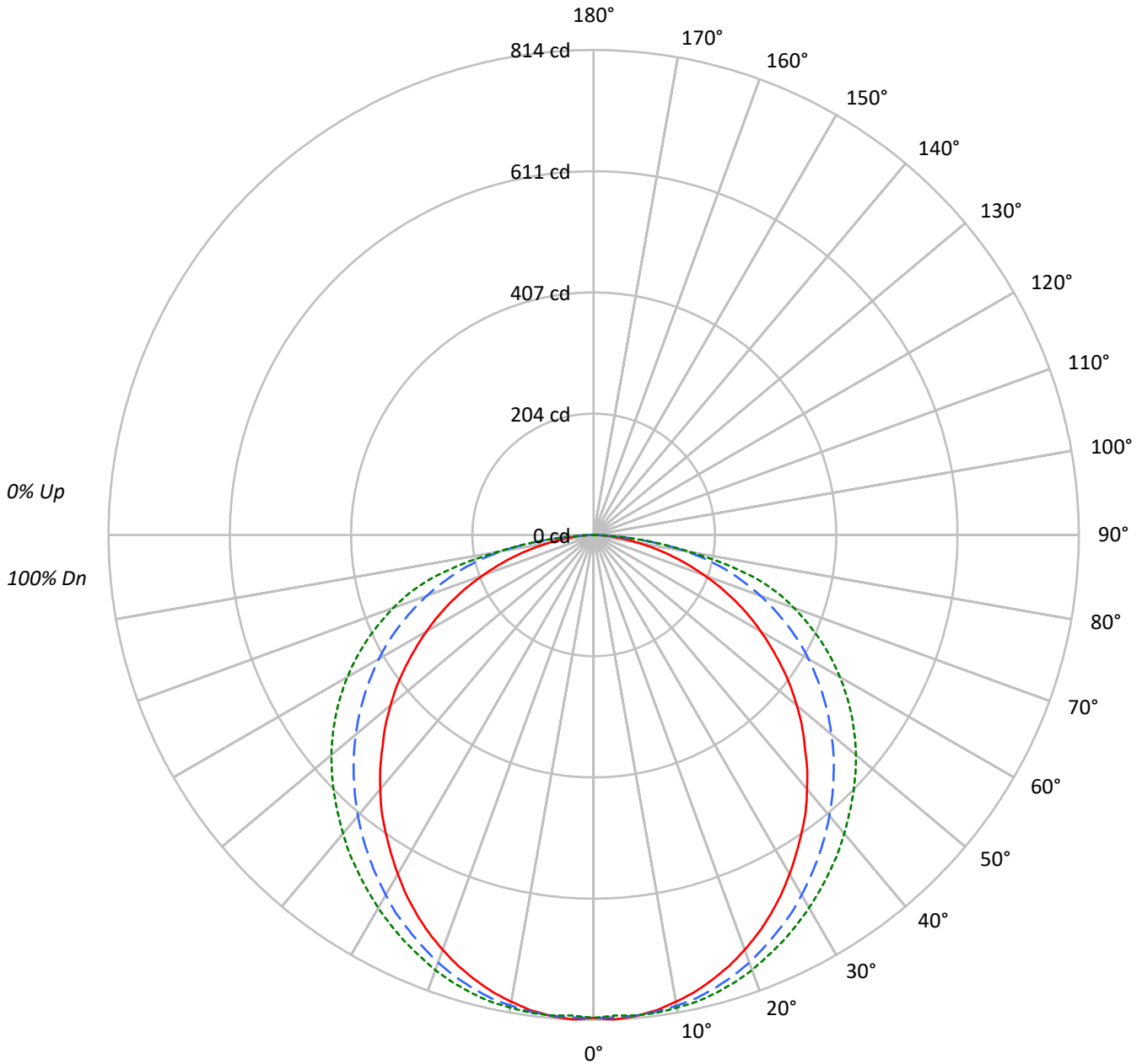
Lumens per Lamp: N/A
Luminaire Lumens: 2536.0 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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					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								
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°	1144	1144	1144
5°	1148	1147	1147
10°	1140	1150	1155
15°	1128	1150	1162
20°	1113	1147	1167
25°	1094	1141	1171
30°	1071	1137	1178
35°	1049	1134	1189
40°	1026	1134	1205
45°	999	1136	1229
50°	976	1144	1261
55°	948	1156	1300
60°	915	1175	1347
65°	875	1197	1404
70°	812	1227	1476
75°	735	1269	1544
80°	619	1273	1326
85°	474	962	962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	3.0
10°-20°	221.4	8.7
20°-30°	336.3	13.3
30°-40°	409.0	16.1
40°-50°	435.5	17.2
50°-60°	414.8	16.4
60°-70°	346.8	13.7
70°-80°	231.3	9.1
80°-90°	64.0	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°	634.6	25.0
0°-40°	1043.6	41.2
0°-60°	1893.9	74.7
0°-90°	2536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	811	811	811	811	811	
5°	811	806	810	810	810	77
15°	772	774	787	793	796	218
25°	703	712	733	745	752	324
35°	609	626	658	680	690	381
45°	501	528	569	601	616	387
55°	385	419	470	511	528	344
65°	262	301	358	403	420	259
75°	135	178	233	272	283	143
85°	29	54	59	59	59	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	810.6	810.6	810.6	810.6	810.6
2.5°	814.0	808.1	810.6	810.6	807.3
5°	810.6	805.6	809.8	809.8	809.8
7.5°	804.8	800.6	807.3	809.0	809.0
10°	795.6	793.9	802.3	804.8	805.6
12.5°	785.6	784.7	796.4	799.7	802.3
15°	772.1	773.8	787.2	793.1	795.6
17.5°	757.9	761.2	776.3	784.7	787.2
20°	741.1	746.2	763.8	772.1	777.2
22.5°	722.8	730.3	748.7	758.7	764.5
25°	702.6	711.8	732.8	745.3	752.0
27.5°	680.9	692.6	716.9	731.0	737.8
30°	657.3	670.7	697.6	714.4	722.8
32.5°	633.1	649.0	678.4	696.7	706.8
35°	608.8	626.4	658.2	680.0	690.0
37.5°	584.5	602.1	637.3	660.7	673.3
40°	556.9	577.8	615.6	641.5	654.1
42.5°	530.1	552.7	592.9	621.3	634.8
45°	500.7	527.6	569.4	601.3	615.6
47.5°	474.0	500.7	546.0	579.5	595.4
50°	444.7	473.1	520.9	557.8	574.5
52.5°	416.2	445.6	495.7	535.1	551.9
55°	385.3	418.7	469.8	510.9	528.4
57.5°	354.2	390.3	442.9	485.7	503.4
60°	324.1	360.9	416.2	458.9	477.3
62.5°	294.0	330.7	388.5	432.1	449.7
65°	262.1	300.6	358.4	402.8	420.4
67.5°	230.3	270.4	328.2	372.6	389.4
70°	196.8	239.5	297.3	340.9	357.6
72.5°	165.9	208.5	265.4	308.2	324.1
75°	134.8	177.5	232.8	272.2	283.1
77.5°	104.7	147.4	196.8	222.8	225.3
80°	76.2	116.5	156.6	164.1	163.2
82.5°	51.0	87.1	108.1	108.8	111.3
85°	29.3	54.4	59.4	58.7	59.4
87.5°	11.8	19.3	16.8	12.5	12.5
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)