

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: P734028

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734028
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-CP250-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SQR LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

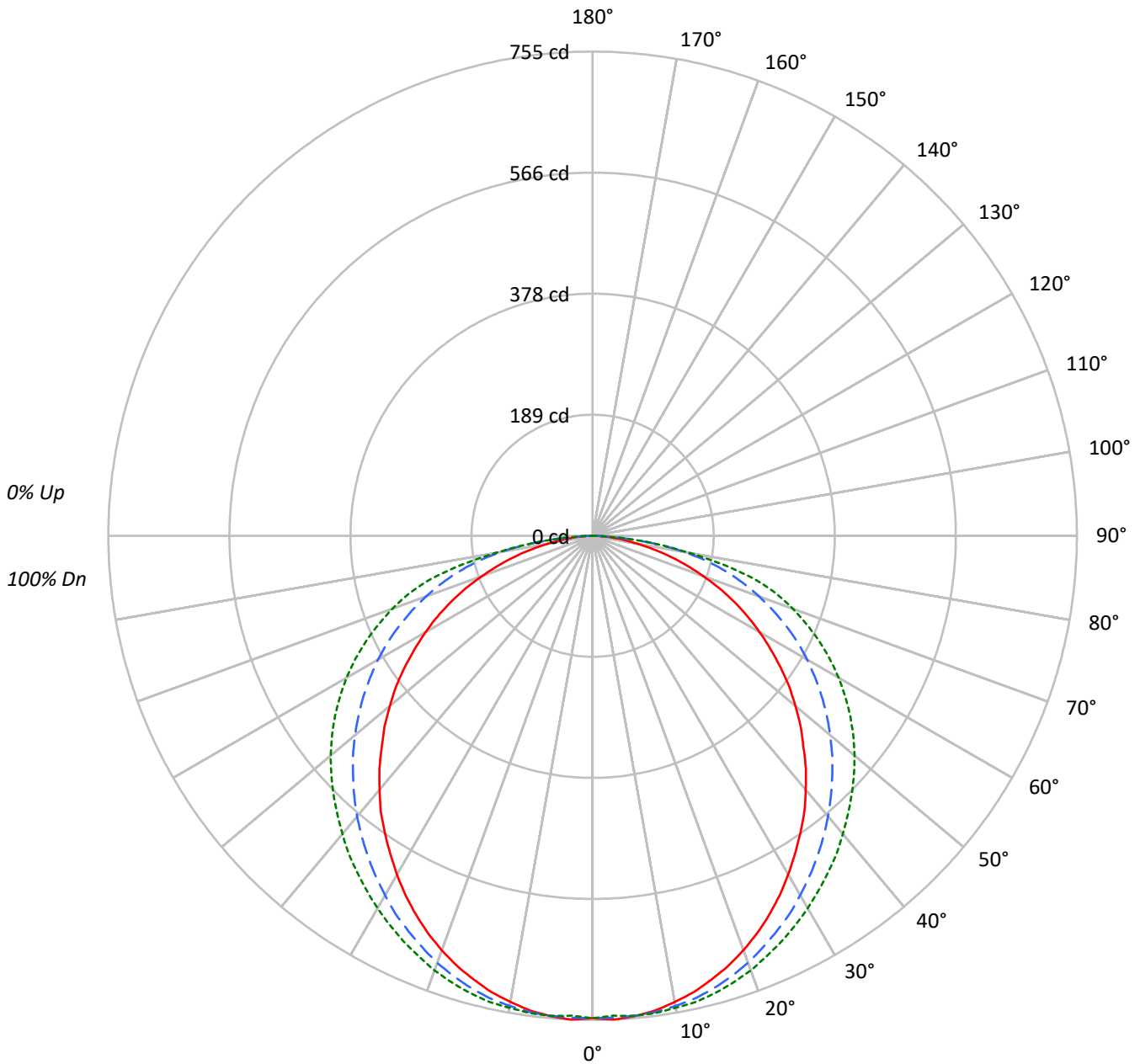
Lumens per Lamp: N/A
Luminaire Lumens: 2353.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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°	1061	1061	1061
5°	1066	1065	1065
10°	1058	1067	1071
15°	1047	1067	1079
20°	1033	1064	1083
25°	1015	1059	1087
30°	994	1055	1093
35°	973	1052	1103
40°	952	1052	1118
45°	927	1054	1140
50°	906	1061	1171
55°	880	1073	1206
60°	849	1090	1250
65°	812	1110	1303
70°	753	1138	1369
75°	682	1178	1432
80°	575	1181	1231
85°	440	892	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	3.0
10°-20°	205.4	8.7
20°-30°	312.0	13.3
30°-40°	379.5	16.1
40°-50°	404.1	17.2
50°-60°	384.9	16.4
60°-70°	321.8	13.7
70°-80°	214.6	9.1
80°-90°	59.4	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°	588.8	25.0
0°-40°	968.3	41.2
0°-60°	1757.2	74.7
0°-90°	2353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2353.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	752	747	751	751	751	71
15°	716	718	730	736	738	202
25°	652	660	680	692	698	300
35°	565	581	611	631	640	353
45°	465	490	528	558	571	359
55°	358	388	436	474	490	320
65°	243	279	332	374	390	240
75°	125	165	216	252	263	133
85°	27	50	55	54	55	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	752.1	752.1	752.1	752.1	752.1
2.5°	755.2	749.8	752.1	752.1	749.1
5°	752.1	747.4	751.4	751.4	751.4
7.5°	746.7	742.8	749.1	750.6	750.6
10°	738.2	736.6	744.4	746.7	747.4
12.5°	728.9	728.1	739.0	742.0	744.4
15°	716.3	718.0	730.4	735.8	738.2
17.5°	703.2	706.2	720.3	728.1	730.4
20°	687.7	692.3	708.7	716.3	721.1
22.5°	670.6	677.6	694.6	703.9	709.4
25°	651.9	660.4	679.9	691.5	697.8
27.5°	631.7	642.6	665.1	678.3	684.5
30°	609.9	622.3	647.3	662.8	670.6
32.5°	587.4	602.1	629.4	646.5	655.8
35°	564.9	581.2	610.7	630.9	640.2
37.5°	542.4	558.6	591.3	613.0	624.8
40°	516.7	536.1	571.1	595.2	606.9
42.5°	491.9	512.8	550.1	576.5	589.0
45°	464.6	489.5	528.3	557.9	571.1
47.5°	439.8	464.6	506.6	537.7	552.5
50°	412.6	439.0	483.3	517.5	533.1
52.5°	386.1	413.4	460.0	496.5	512.1
55°	357.5	388.5	435.9	474.0	490.3
57.5°	328.7	362.1	411.0	450.7	467.0
60°	300.7	334.8	386.1	425.8	442.9
62.5°	272.7	306.9	360.5	400.9	417.2
65°	243.2	278.9	332.5	373.7	390.1
67.5°	213.7	250.9	304.6	345.8	361.3
70°	182.6	222.3	275.9	316.3	331.8
72.5°	153.9	193.5	246.3	286.0	300.7
75°	125.1	164.7	216.0	252.5	262.6
77.5°	97.1	136.7	182.6	206.7	209.0
80°	70.7	108.0	145.3	152.3	151.5
82.5°	47.4	80.8	100.3	101.0	103.3
85°	27.2	50.5	55.1	54.4	55.1
87.5°	10.9	17.9	15.6	11.6	11.6
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)