

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: P734153

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734153
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: 24FCZ2-30HE-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

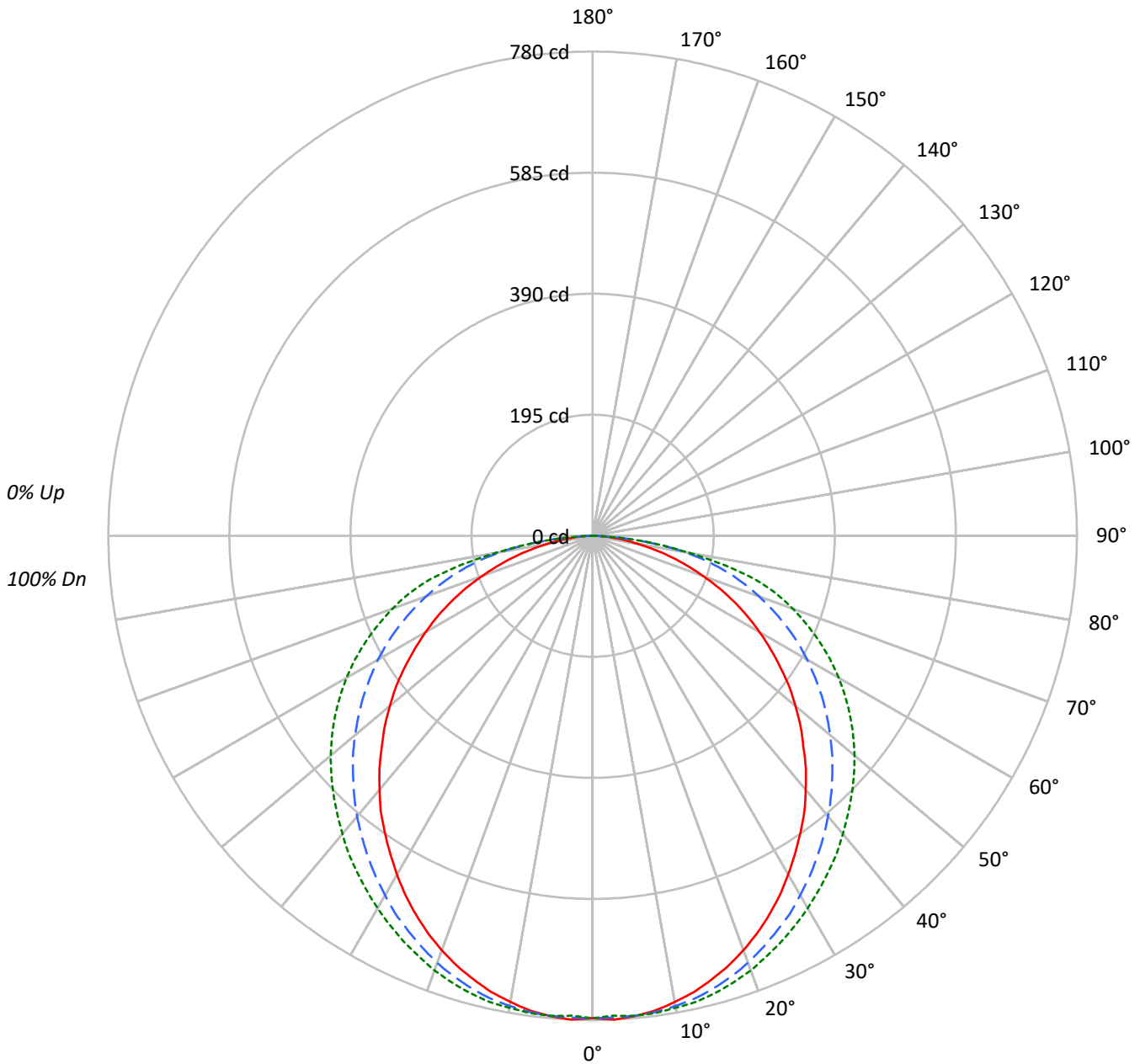
Lumens per Lamp: N/A
Luminaire Lumens: 2431.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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°	1097	1097	1097
5°	1101	1100	1100
10°	1093	1102	1107
15°	1081	1103	1114
20°	1067	1100	1119
25°	1049	1094	1123
30°	1027	1090	1129
35°	1006	1087	1140
40°	983	1087	1155
45°	958	1089	1178
50°	936	1096	1209
55°	909	1108	1246
60°	877	1126	1292
65°	839	1147	1346
70°	778	1176	1415
75°	705	1217	1480
80°	593	1220	1272
85°	455	923	923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	3.0
10°-20°	212.2	8.7
20°-30°	322.4	13.3
30°-40°	392.1	16.1
40°-50°	417.5	17.2
50°-60°	397.6	16.4
60°-70°	332.5	13.7
70°-80°	221.7	9.1
80°-90°	61.3	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°	608.3	25.0
0°-40°	1000.4	41.2
0°-60°	1815.5	74.7
0°-90°	2431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2431.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	777	772	776	776	776	74
15°	740	742	755	760	763	209
25°	674	682	702	714	721	310
35°	584	600	631	652	661	365
45°	480	506	546	576	590	371
55°	369	401	450	490	506	330
65°	251	288	344	386	403	248
75°	129	170	223	261	271	137
85°	28	52	57	56	57	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	777.0	777.0	777.0	777.0	777.0
2.5°	780.3	774.6	777.0	777.0	773.9
5°	777.0	772.2	776.3	776.3	776.3
7.5°	771.5	767.4	773.9	775.5	775.5
10°	762.6	761.1	769.1	771.5	772.2
12.5°	753.0	752.2	763.5	766.6	769.1
15°	740.1	741.8	754.6	760.2	762.6
17.5°	726.5	729.7	744.2	752.2	754.6
20°	710.5	715.3	732.2	740.1	745.0
22.5°	692.8	700.0	717.7	727.3	732.9
25°	673.5	682.3	702.4	714.4	720.9
27.5°	652.7	663.9	687.2	700.8	707.2
30°	630.1	643.0	668.7	684.8	692.8
32.5°	606.9	622.1	650.3	667.9	677.5
35°	583.6	600.5	631.0	651.8	661.4
37.5°	560.3	577.1	610.9	633.4	645.5
40°	533.8	553.9	590.1	614.9	627.0
42.5°	508.2	529.8	568.4	595.6	608.5
45°	480.0	505.8	545.8	576.4	590.1
47.5°	454.3	480.0	523.4	555.5	570.8
50°	426.3	453.5	499.3	534.7	550.7
52.5°	398.9	427.1	475.2	513.0	529.0
55°	369.3	401.3	450.4	489.7	506.5
57.5°	339.6	374.1	424.6	465.6	482.5
60°	310.7	345.9	398.9	439.9	457.6
62.5°	281.8	317.0	372.4	414.2	431.1
65°	251.2	288.1	343.5	386.1	403.0
67.5°	220.8	259.3	314.6	357.2	373.3
70°	188.6	229.6	285.0	326.8	342.8
72.5°	159.0	199.9	254.5	295.5	310.7
75°	129.3	170.2	223.2	260.9	271.4
77.5°	100.4	141.3	188.6	213.6	216.0
80°	73.0	111.6	150.1	157.3	156.5
82.5°	48.9	83.5	103.6	104.3	106.7
85°	28.1	52.2	57.0	56.2	57.0
87.5°	11.3	18.5	16.1	12.0	12.0
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)