

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: METALUX

Report Number: P880718

Luminaire Tested: **22CZ2-34VHE-SQR-B2750-W2D-3000K**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P880718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475230)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34VHE-SQR-B2750-W2D-3000K
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

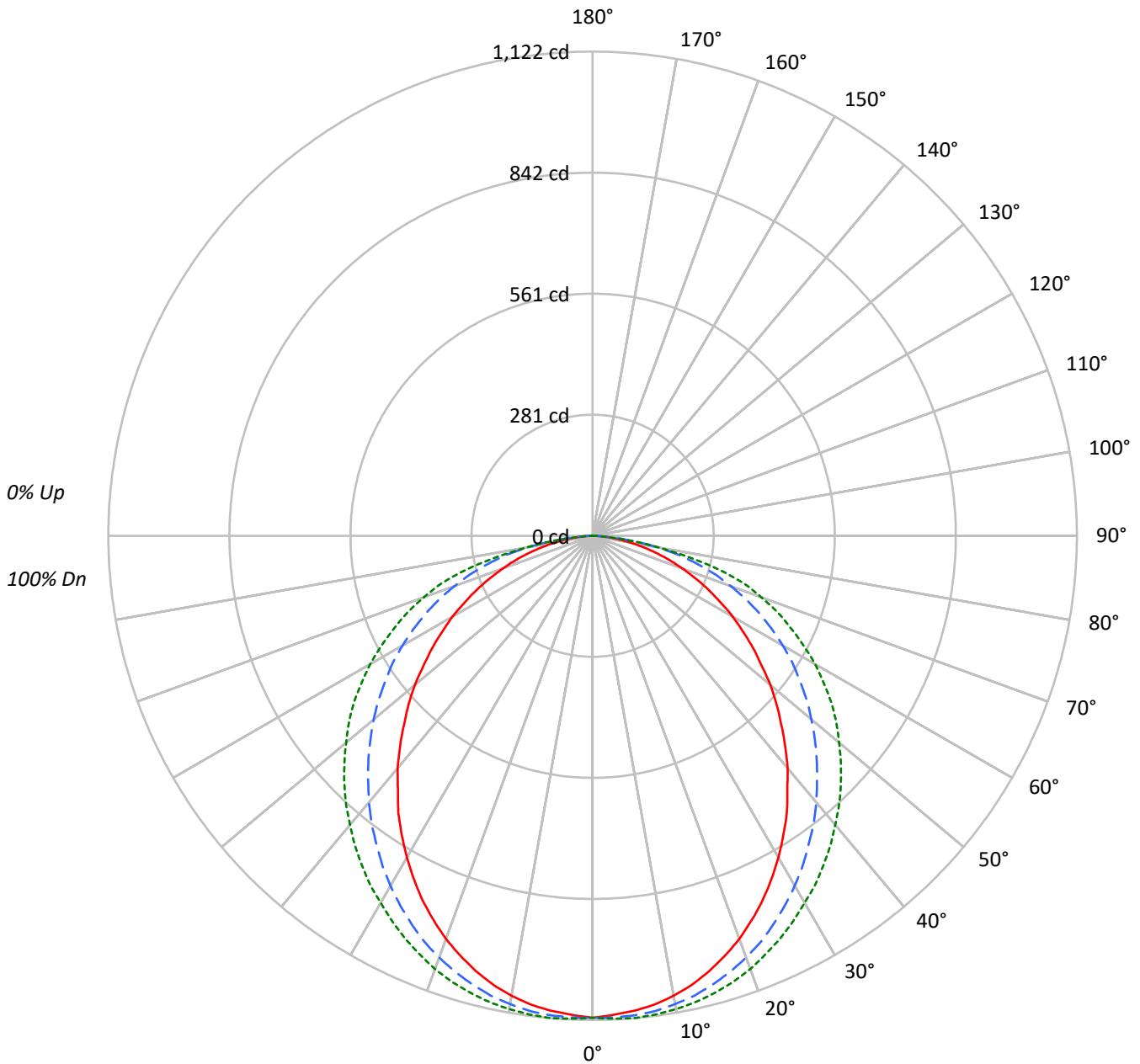
Lumens per Lamp: N/A
Luminaire Lumens: 3198.0 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 27
Input Voltage (V): NR
Input Current (Ain): 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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83																			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43																			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3170	3170	3170
5°	3147	3178	3195
10°	3118	3175	3210
15°	3068	3161	3220
20°	3002	3140	3226
25°	2918	3108	3222
30°	2820	3068	3218
35°	2718	3023	3228
40°	2603	2986	3239
45°	2479	2948	3265
50°	2372	2921	3290
55°	2245	2898	3342
60°	2128	2886	3377
65°	1987	2864	3403
70°	1825	2820	3450
75°	1649	2745	3327
80°	1412	2431	2505
85°	1136	1433	1136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	3.3
10°-20°	302.8	9.5
20°-30°	454.8	14.2
30°-40°	542.4	17.0
40°-50°	560.8	17.5
50°-60°	515.6	16.1
60°-70°	410.5	12.8
70°-80°	250.8	7.8
80°-90°	54.5	1.7
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°	863.5	27.0
0°-40°	1405.9	44.0
0°-60°	2482.3	77.6
0°-90°	3198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1105	1108	1116	1120	1122	105
15°	1044	1056	1076	1091	1096	294
25°	932	955	993	1020	1029	429
35°	785	818	873	918	932	490
45°	618	662	735	794	814	478
55°	454	504	586	653	676	406
65°	296	346	426	486	507	293
75°	150	194	250	294	304	160
85°	35	42	44	38	35	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1117.1	1117.1	1117.1	1117.1	1117.1
2.5°	1111.1	1112.5	1117.1	1120.2	1120.2
5°	1104.9	1108.0	1115.6	1120.2	1121.8
7.5°	1096.0	1100.4	1111.1	1117.1	1118.8
10°	1082.2	1088.4	1102.0	1111.1	1114.0
12.5°	1065.6	1074.7	1091.3	1103.5	1106.5
15°	1044.4	1056.5	1076.0	1091.3	1096.0
17.5°	1020.0	1035.1	1059.6	1077.8	1083.8
20°	994.1	1009.4	1039.8	1060.9	1068.5
22.5°	963.8	983.6	1018.5	1042.9	1048.9
25°	932.0	954.7	992.7	1020.0	1029.1
27.5°	897.0	924.5	965.4	998.9	1006.5
30°	860.6	889.4	936.5	972.9	982.1
32.5°	822.6	856.1	906.1	947.2	959.4
35°	784.6	818.1	872.8	918.5	932.0
37.5°	740.6	780.1	841.0	888.1	904.6
40°	702.8	740.6	806.1	857.6	874.3
42.5°	660.2	701.3	769.7	825.7	845.4
45°	617.8	661.7	734.6	793.9	813.7
47.5°	578.2	622.2	698.2	760.6	780.1
50°	537.3	582.9	661.7	725.5	745.3
52.5°	493.3	543.4	625.3	689.1	711.9
55°	453.8	503.8	585.8	652.6	675.5
57.5°	412.8	464.5	549.5	613.3	634.6
60°	374.9	425.0	508.6	570.7	595.1
62.5°	333.9	385.4	467.4	528.2	551.1
65°	295.9	346.1	426.5	485.8	506.9
67.5°	257.9	308.3	383.9	440.2	464.5
70°	220.0	270.3	339.9	394.7	415.8
72.5°	186.8	230.8	297.5	347.6	367.4
75°	150.4	194.3	250.4	294.4	303.5
77.5°	116.8	156.4	203.5	223.0	226.3
80°	86.4	116.8	148.8	153.3	153.3
82.5°	57.6	80.4	92.6	94.0	92.6
85°	34.9	42.4	44.0	38.0	34.9
87.5°	12.0	12.0	7.6	4.5	1.5
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)