

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: P881103

Luminaire Tested: **22CZ2-34VHE-SQR-UNV-B50**

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: P881103
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-UNV-B50
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

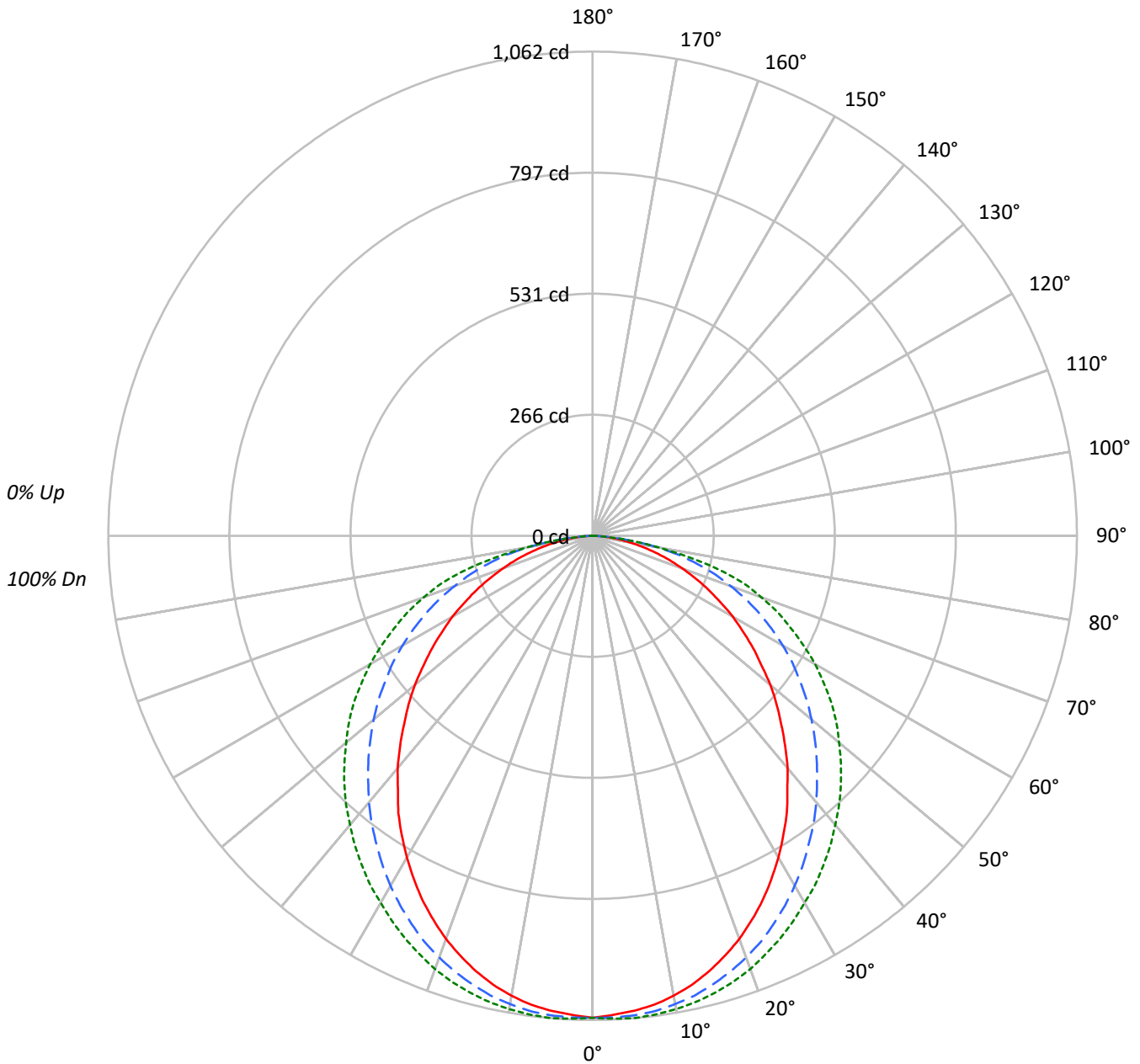
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3027.0 lumens
Efficiency: N/A
Efficacy: 112.1 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°	3000	3000	3000
5°	2979	3008	3024
10°	2952	3005	3038
15°	2904	2992	3048
20°	2841	2972	3054
25°	2762	2942	3050
30°	2669	2904	3046
35°	2573	2862	3056
40°	2464	2826	3066
45°	2346	2790	3090
50°	2245	2765	3114
55°	2125	2743	3163
60°	2014	2732	3197
65°	1881	2711	3221
70°	1727	2669	3265
75°	1560	2598	3149
80°	1337	2302	2371
85°	1074	1354	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.3
10°-20°	286.6	9.5
20°-30°	430.5	14.2
30°-40°	513.4	17.0
40°-50°	530.8	17.5
50°-60°	488.0	16.1
60°-70°	388.5	12.8
70°-80°	237.4	7.8
80°-90°	51.6	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°	817.3	27.0
0°-40°	1330.8	44.0
0°-60°	2349.6	77.6
0°-90°	3027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1046	1049	1056	1060	1062	99
15°	989	1000	1018	1033	1037	278
25°	882	904	940	966	974	406
35°	743	774	826	869	882	463
45°	585	626	695	751	770	452
55°	430	477	554	618	639	384
65°	280	328	404	460	480	277
75°	142	184	237	279	287	151
85°	33	40	42	36	33	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1057.4	1057.4	1057.4	1057.4	1057.4
2.5°	1051.7	1053.0	1057.4	1060.3	1060.3
5°	1045.8	1048.8	1055.9	1060.3	1061.8
7.5°	1037.4	1041.6	1051.7	1057.4	1059.0
10°	1024.4	1030.2	1043.1	1051.7	1054.5
12.5°	1008.6	1017.2	1033.0	1044.5	1047.3
15°	988.6	1000.0	1018.5	1033.0	1037.4
17.5°	965.5	979.8	1002.9	1020.1	1025.8
20°	940.9	955.4	984.2	1004.2	1011.4
22.5°	912.3	931.0	964.0	987.1	992.8
25°	882.2	903.7	939.6	965.5	974.1
27.5°	849.0	875.1	913.8	945.5	952.6
30°	814.5	841.9	886.4	920.9	929.5
32.5°	778.6	810.3	857.6	896.5	908.1
35°	742.7	774.4	826.1	869.4	882.2
37.5°	701.0	738.4	796.0	840.6	856.2
40°	665.2	701.0	763.0	811.8	827.6
42.5°	624.9	663.8	728.5	781.5	800.2
45°	584.7	626.4	695.3	751.4	770.1
47.5°	547.3	589.0	660.8	719.9	738.4
50°	508.6	551.7	626.4	686.7	705.4
52.5°	467.0	514.3	591.9	652.2	673.9
55°	429.6	476.9	554.5	617.7	639.4
57.5°	390.7	439.6	520.2	580.5	600.7
60°	354.9	402.2	481.4	540.2	563.3
62.5°	316.0	364.8	442.4	500.0	521.6
65°	280.1	327.6	403.7	459.8	479.8
67.5°	244.1	291.8	363.4	416.7	439.6
70°	208.2	255.8	321.7	373.6	393.6
72.5°	176.8	218.4	281.5	329.0	347.7
75°	142.3	184.0	237.0	278.6	287.2
77.5°	110.6	148.0	192.6	211.1	214.2
80°	81.8	110.6	140.9	145.1	145.1
82.5°	54.5	76.1	87.7	89.0	87.7
85°	33.0	40.2	41.6	35.9	33.0
87.5°	11.4	11.4	7.2	4.2	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)