

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: P881085

Luminaire Tested: **22CZ2-29VHE-S-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: P881085
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: 22CZ2-29VHE-S-UNV-B50
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

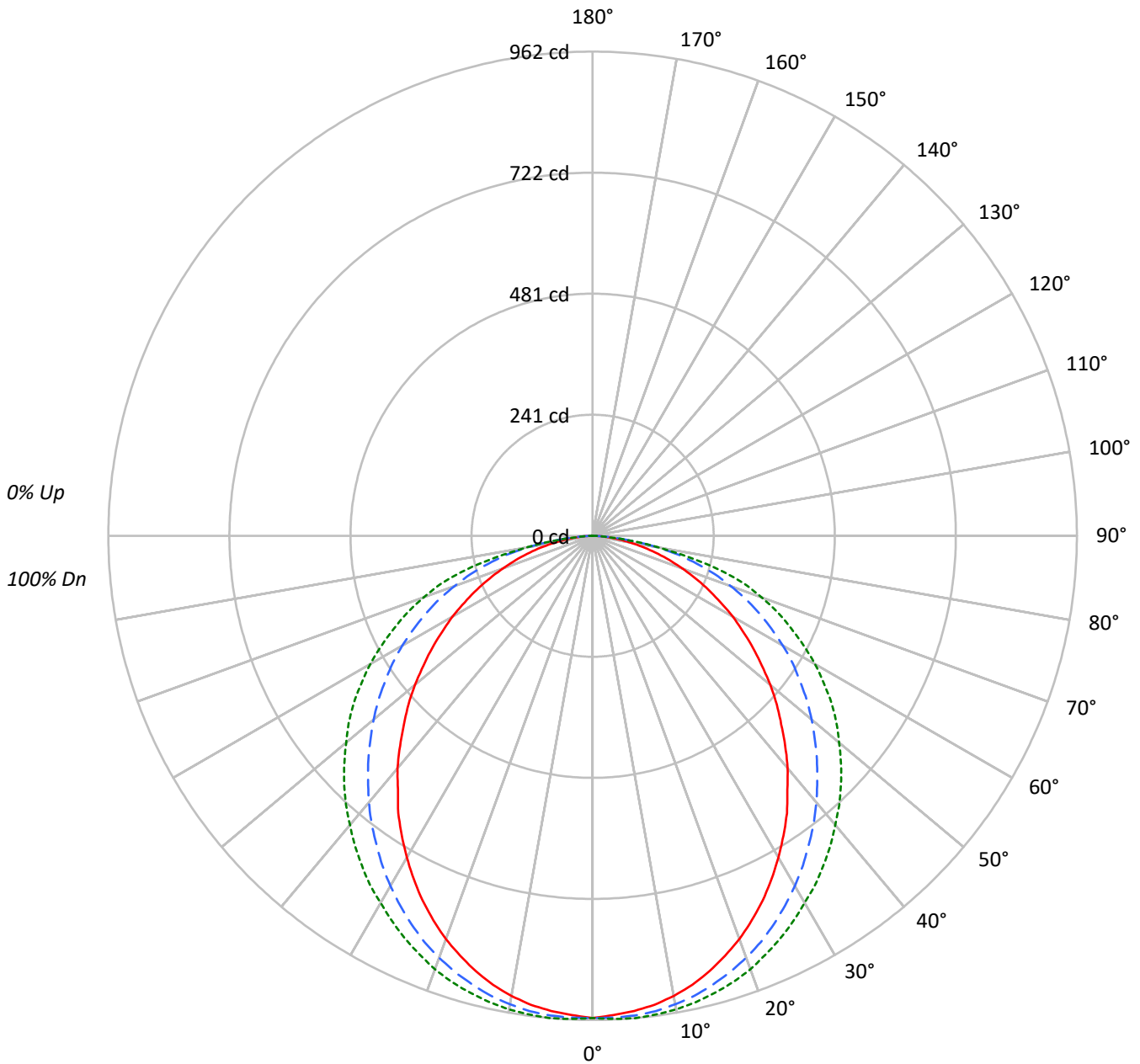
Lumens per Lamp: N/A
Luminaire Lumens: 2743.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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°	2719	2719	2719
5°	2699	2725	2741
10°	2675	2723	2753
15°	2632	2711	2761
20°	2575	2693	2768
25°	2503	2666	2764
30°	2418	2632	2760
35°	2331	2593	2769
40°	2233	2561	2778
45°	2126	2529	2801
50°	2035	2506	2822
55°	1926	2485	2866
60°	1825	2476	2897
65°	1704	2456	2919
70°	1566	2418	2959
75°	1414	2354	2854
80°	1211	2085	2149
85°	973	1227	973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	3.3
10°-20°	259.7	9.5
20°-30°	390.1	14.2
30°-40°	465.2	17.0
40°-50°	481.0	17.5
50°-60°	442.2	16.1
60°-70°	352.1	12.8
70°-80°	215.1	7.8
80°-90°	46.7	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°	740.7	27.0
0°-40°	1205.9	44.0
0°-60°	2129.1	77.6
0°-90°	2743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2743.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	948	950	957	961	962	90
15°	896	906	923	936	940	252
25°	799	819	852	875	883	368
35°	673	702	749	788	799	420
45°	530	568	630	681	698	410
55°	389	432	502	560	579	348
65°	254	297	366	417	435	251
75°	129	167	215	252	260	137
85°	30	36	38	33	30	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.2	958.2	958.2	958.2	958.2
2.5°	953.0	954.2	958.2	960.8	960.8
5°	947.7	950.4	956.8	960.8	962.2
7.5°	940.0	943.9	953.0	958.2	959.7
10°	928.3	933.6	945.2	953.0	955.5
12.5°	914.0	921.8	936.1	946.5	949.0
15°	895.8	906.1	923.0	936.1	940.0
17.5°	874.9	887.9	908.8	924.4	929.6
20°	852.6	865.8	891.9	910.0	916.5
22.5°	826.7	843.7	873.6	894.5	899.7
25°	799.4	818.9	851.5	874.9	882.7
27.5°	769.4	793.0	828.0	856.8	863.3
30°	738.1	762.9	803.3	834.5	842.3
32.5°	705.6	734.3	777.2	812.4	822.9
35°	673.0	701.7	748.6	787.8	799.4
37.5°	635.2	669.1	721.3	761.7	775.9
40°	602.8	635.2	691.4	735.6	749.9
42.5°	566.3	601.5	660.2	708.2	725.2
45°	529.9	567.6	630.1	680.9	697.9
47.5°	496.0	533.7	598.8	652.3	669.1
50°	460.9	499.9	567.6	622.3	639.2
52.5°	423.2	466.0	536.3	591.0	610.6
55°	389.3	432.1	502.4	559.8	579.4
57.5°	354.0	398.4	471.4	526.0	544.3
60°	321.6	364.5	436.3	489.5	510.4
62.5°	286.4	330.6	400.9	453.1	472.7
65°	253.8	296.8	365.8	416.7	434.8
67.5°	221.2	264.4	329.3	377.6	398.4
70°	188.7	231.8	291.5	338.6	356.7
72.5°	160.2	197.9	255.1	298.2	315.1
75°	129.0	166.7	214.7	252.5	260.3
77.5°	100.2	134.1	174.5	191.3	194.1
80°	74.1	100.2	127.6	131.5	131.5
82.5°	49.4	69.0	79.4	80.6	79.4
85°	29.9	36.4	37.7	32.6	29.9
87.5°	10.3	10.3	6.5	3.8	1.3
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)