

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: P626492

Luminaire Tested: **22CZSCT3-UNV-LOW-3500K**

Issue Date: 11/22/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P626492  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Issue Date: 11/22/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: METALUX  
 Catalog Number: 22CZSCT3-UNV-LOW-3500K  
 Description: 2X2, MID CCT, LOW LUMENS  
 Light Source: SELECTABLE LUMEN LED 80CRI / 3500K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 2979.1 lumens  
 Efficiency: N/A  
 Efficacy: 144.6 lumens/watt  
 Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35  
 Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
 CIE Type: Direct

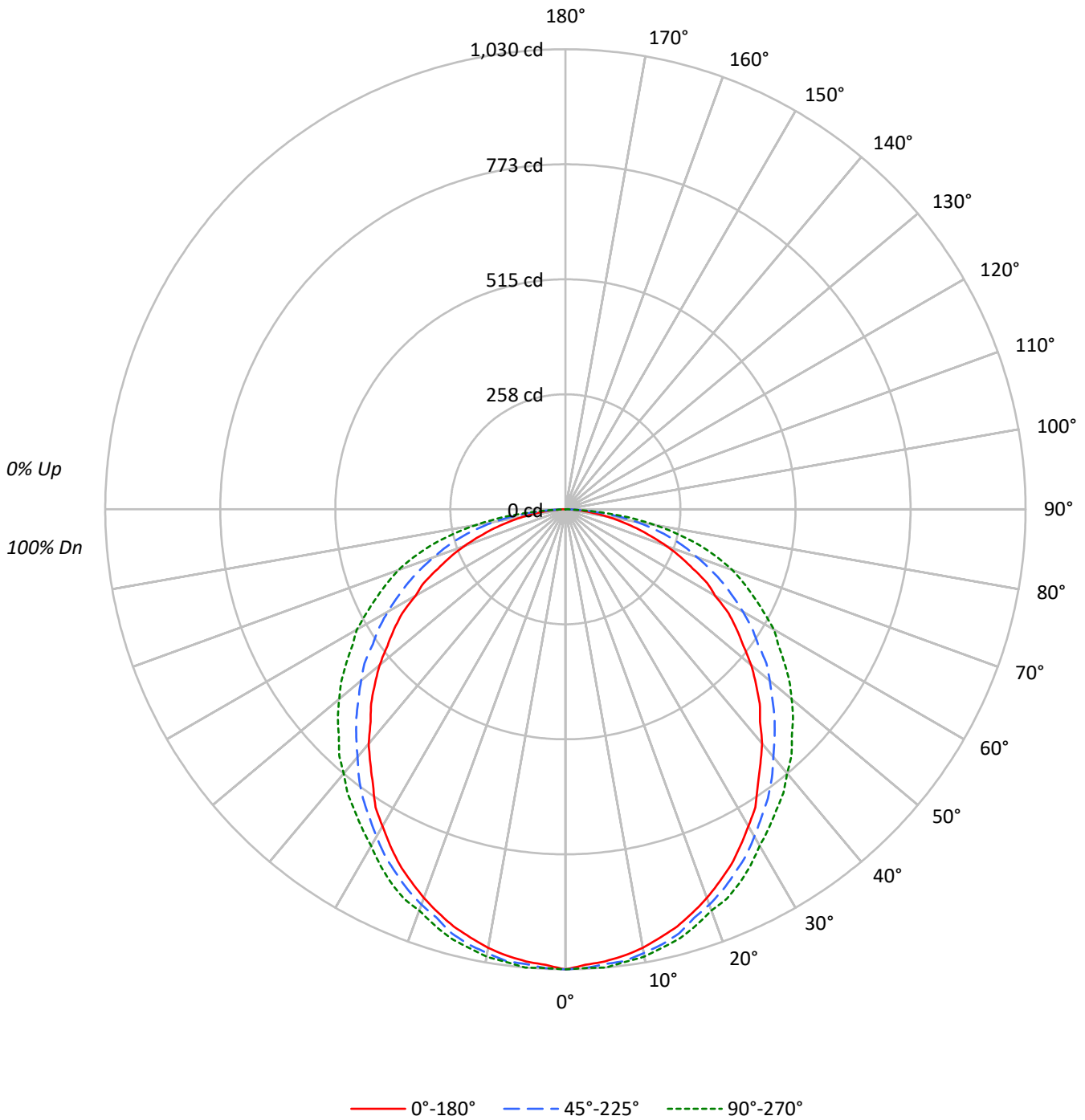
Input Watts (W): 20.6  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



Meas			
Instrument	Identificatio		Calibration Due Date
Photometer	GONIO 1 11111111	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20
RC	80				70				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	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	70	70	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	59	59	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	51	51	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	44	44	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	39	39	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	34	34	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	31	31	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	25	25	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2772	2772	2772
5°	2744	2761	2782
10°	2724	2757	2779
15°	2694	2739	2769
20°	2652	2698	2738
25°	2607	2666	2741
30°	2545	2629	2703
35°	2467	2595	2704
40°	2406	2543	2712
45°	2340	2519	2729
50°	2273	2499	2767
55°	2196	2468	2806
60°	2083	2470	2901
65°	2006	2471	2967
70°	1896	2463	3131
75°	1716	2516	3234
80°	1488	2495	3161
85°	1204	2100	2501

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.2	3.3
10°-20°	276.9	9.3
20°-30°	414.8	13.9
30°-40°	493.6	16.6
40°-50°	513.2	17.2
50°-60°	474.7	15.9
60°-70°	384.4	12.9
70°-80°	250.5	8.4
80°-90°	73.8	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
<b>0°-30°</b>	<b>788.9</b>	<b>26.5</b>
<b>0°-40°</b>	<b>1282.5</b>	<b>43.0</b>
<b>0°-60°</b>	<b>2270.4</b>	<b>76.2</b>
<b>0°-90°</b>	<b>2979.1</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>2979.1</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1016	1019	1022	1030	1030	96
15°	967	974	983	994	994	272
25°	878	890	898	916	923	404
35°	751	763	790	816	823	471
45°	615	631	662	703	717	473
55°	468	479	526	580	598	418
65°	315	333	388	442	466	313
75°	165	186	242	293	311	175
85°	39	51	68	79	81	46
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1030	1030	1030	1030	1030
2.5°	1021	1024	1028	1033	1028
5°	1016	1019	1022	1030	1030
7.5°	1008	1011	1020	1023	1022
10°	997	1004	1009	1014	1017
12.5°	982	988	998	1002	1005
15°	967	974	983	994	994
17.5°	947	956	959	983	976
20°	926	933	942	961	956
22.5°	902	908	922	942	944
25°	878	890	898	916	923
27.5°	849	858	875	896	898
30°	819	826	846	870	870
32.5°	791	796	817	841	847
35°	751	763	790	816	823
37.5°	717	730	759	784	801
40°	685	696	724	762	772
42.5°	645	662	693	734	749
45°	615	631	662	703	717
47.5°	578	589	628	677	691
50°	543	555	597	643	661
52.5°	502	518	567	612	632
55°	468	479	526	580	598
57.5°	433	444	495	548	565
60°	387	407	459	512	539
62.5°	358	369	423	477	501
65°	315	333	388	442	466
67.5°	279	296	351	407	432
70°	241	259	313	366	398
72.5°	201	221	280	330	356
75°	165	186	242	293	311
77.5°	128	151	203	244	259
80°	96	117	161	191	204
82.5°	64	84	115	138	146
85°	39	51	68	79	81
87.5°	17	18	22	19	18
90°	0	0	0	0	0

(END OF REPORT)