

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: P626494

Luminaire Tested: **22CZSCT3-UNV-MID-3000K**

Issue Date: 11/22/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P626494  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Issue Date: 11/22/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: METALUX  
 Catalog Number: 22CZSCT3-UNV-MID-3000K  
 Description: 2X2, WARM CCT, MID LUMENS  
 Light Source: SELECTABLE LUMEN LED 80CRI / 3000K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 3270.5 lumens  
 Efficiency: N/A  
 Efficacy: 120.7 lumens/watt  
 Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.35  
 Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
 CIE Type: Direct

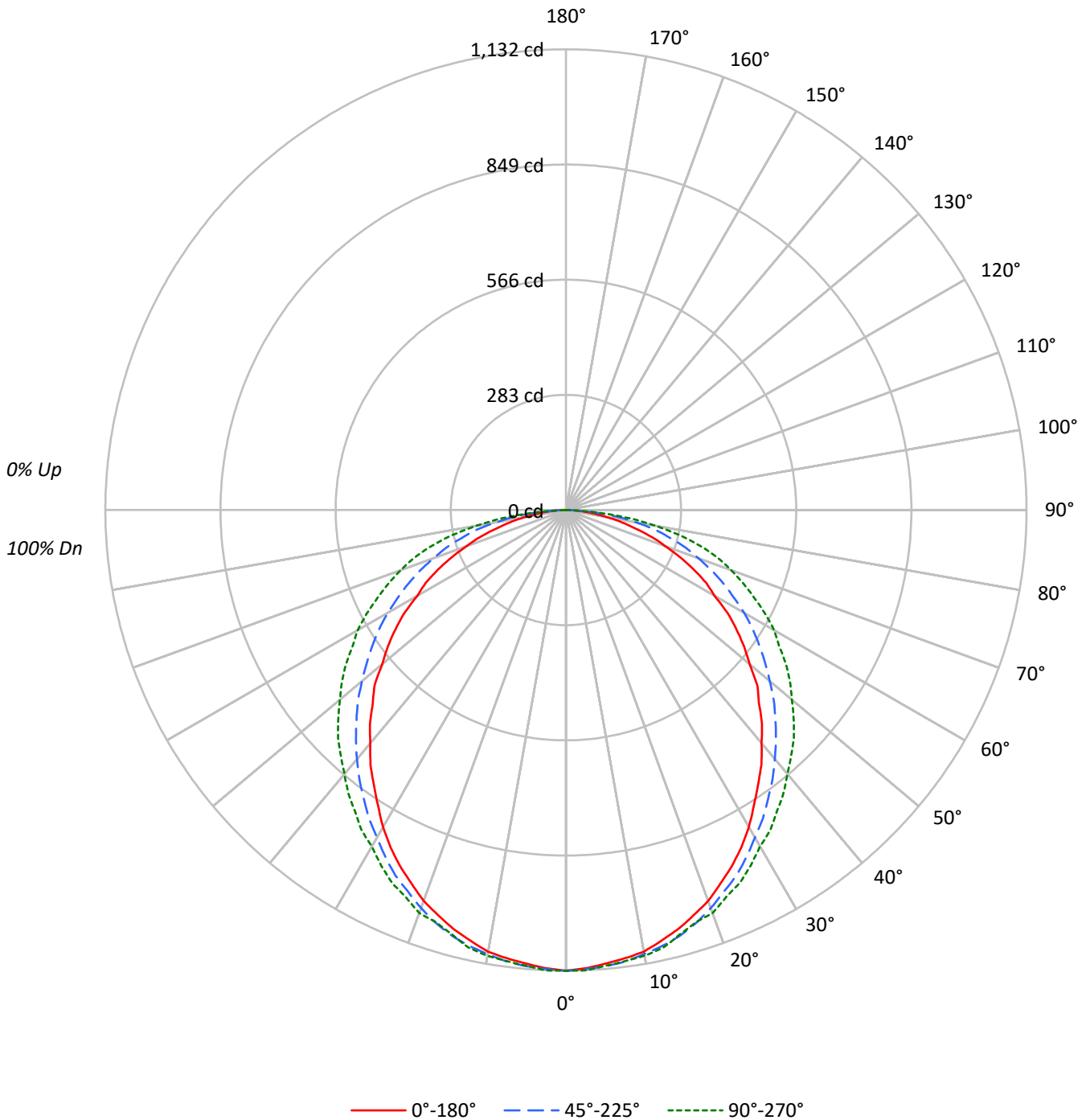
Input Watts (W): 27.1  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



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	
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25	23

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

	0°	45°	90°
0°	3046	3046	3046
5°	3023	3039	3036
10°	3011	3028	3039
15°	2970	3017	3009
20°	2927	2981	3018
25°	2865	2942	3002
30°	2793	2887	2964
35°	2704	2845	2970
40°	2628	2807	2975
45°	2554	2770	3014
50°	2466	2738	3035
55°	2402	2721	3096
60°	2266	2723	3181
65°	2209	2719	3254
70°	2046	2722	3399
75°	1851	2755	3566
80°	1627	2727	3487
85°	1328	2316	2779

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.9	3.3
10°-20°	304.4	9.3
20°-30°	455.5	13.9
30°-40°	542.2	16.6
40°-50°	562.9	17.2
50°-60°	520.1	15.9
60°-70°	421.7	12.9
70°-80°	275.4	8.4
80°-90°	81.5	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°	866.8	26.5
0°-40°	1409.0	43.1
0°-60°	2492.0	76.2
0°-90°	3270.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3270.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1119	1123	1125	1131	1124	106
15°	1066	1070	1083	1092	1080	300
25°	965	971	991	1010	1011	444
35°	823	835	866	898	904	516
45°	671	685	728	773	792	519
55°	512	527	580	634	660	456
65°	347	363	427	485	511	342
75°	178	203	265	321	343	191
85°	43	55	75	86	90	51
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1132	1132	1132	1132	1132
2.5°	1127	1127	1129	1135	1132
5°	1119	1123	1125	1131	1124
7.5°	1111	1113	1119	1125	1118
10°	1102	1102	1108	1120	1112
12.5°	1084	1088	1097	1104	1102
15°	1066	1070	1083	1092	1080
17.5°	1044	1051	1064	1073	1062
20°	1022	1026	1041	1053	1054
22.5°	993	999	1015	1032	1029
25°	965	971	991	1010	1011
27.5°	934	941	961	982	984
30°	899	906	929	954	954
32.5°	860	873	900	925	934
35°	823	835	866	898	904
37.5°	789	800	834	869	878
40°	748	762	799	836	847
42.5°	713	723	764	806	819
45°	671	685	728	773	792
47.5°	638	646	693	738	759
50°	589	604	654	707	725
52.5°	552	566	617	672	694
55°	512	527	580	634	660
57.5°	471	484	544	599	621
60°	421	445	506	563	591
62.5°	389	405	465	525	552
65°	347	363	427	485	511
67.5°	304	323	387	445	472
70°	260	283	346	406	432
72.5°	222	243	309	364	392
75°	178	203	265	321	343
77.5°	142	165	225	269	287
80°	105	129	176	209	225
82.5°	72	92	127	153	161
85°	43	55	75	86	90
87.5°	21	21	25	21	20
90°	0	0	0	0	0

(END OF REPORT)