

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: P626496

Luminaire Tested: **22CZSCT3-UNV-MID-4000K**

Issue Date: 11/22/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P626496  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Issue Date: 11/22/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: METALUX  
 Catalog Number: 22CZSCT3-UNV-MID-4000K  
 Description: 2X2, COOL CCT, MID LUMENS  
 Light Source: SELECTABLE LUMEN LED 80CRI / 4000K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 3479.2 lumens  
 Efficiency: N/A  
 Efficacy: 127.9 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

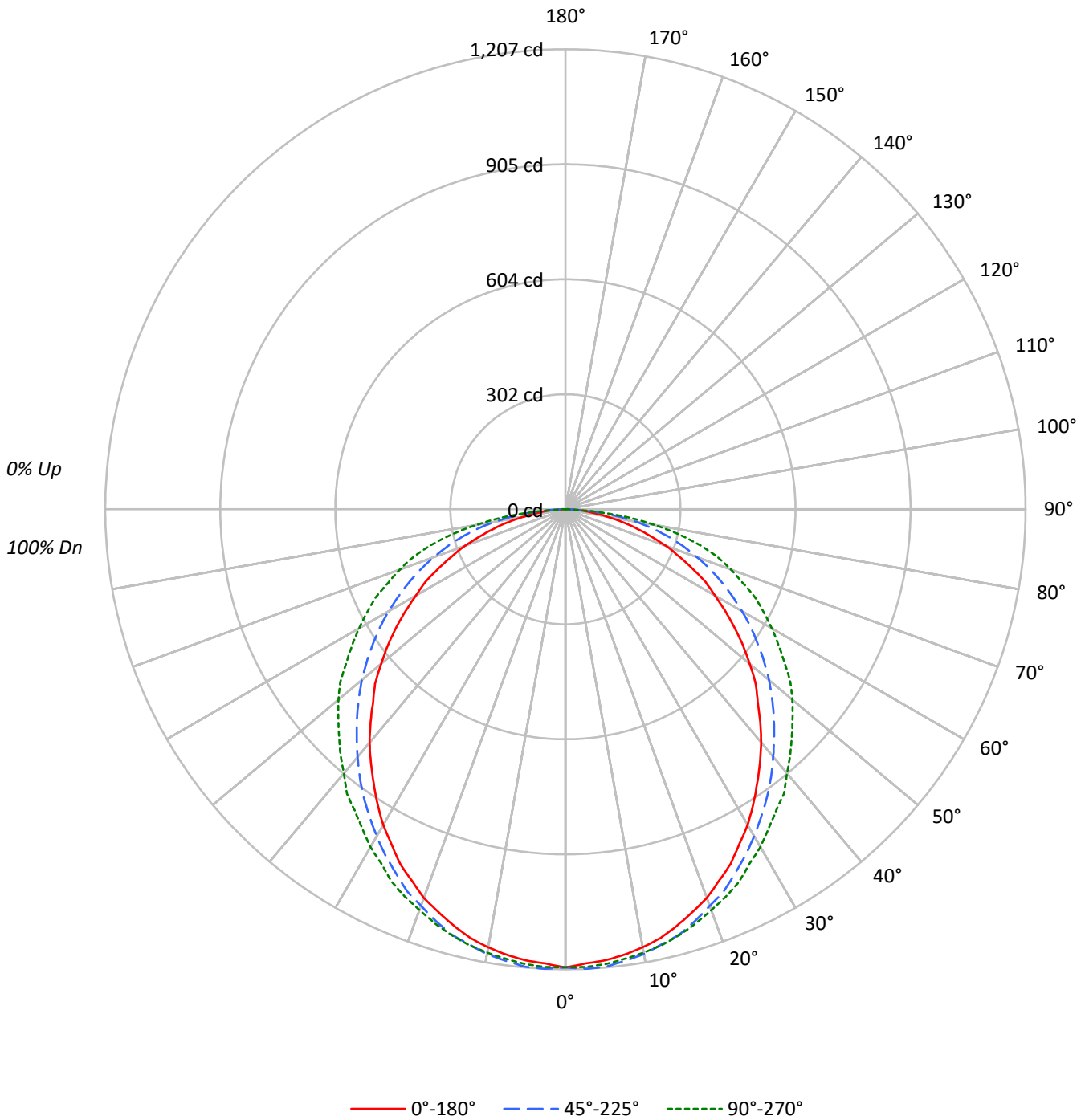
Input Watts (W): 27.2  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



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°	3235	3235	3235
5°	3209	3255	3236
10°	3189	3238	3227
15°	3151	3218	3221
20°	3107	3170	3204
25°	3046	3127	3201
30°	2971	3076	3179
35°	2881	3029	3167
40°	2807	2979	3176
45°	2713	2942	3197
50°	2642	2918	3253
55°	2543	2890	3289
60°	2438	2879	3364
65°	2337	2878	3502
70°	2211	2888	3635
75°	1996	2922	3816
80°	1705	2898	3688
85°	1482	2501	2933

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.7	3.3
10°-20°	323.6	9.3
20°-30°	484.3	13.9
30°-40°	576.9	16.6
40°-50°	598.9	17.2
50°-60°	553.7	15.9
60°-70°	448.8	12.9
70°-80°	293.0	8.4
80°-90°	86.4	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°	921.6	26.5
0°-40°	1498.5	43.1
0°-60°	2651.1	76.2
0°-90°	3479.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3479.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1188	1192	1205	1201	1198	113
15°	1131	1138	1155	1155	1156	319
25°	1026	1033	1053	1069	1078	471
35°	877	889	922	954	964	549
45°	713	732	773	822	840	552
55°	542	560	616	678	701	485
65°	367	388	452	515	550	364
75°	192	216	281	343	367	203
85°	48	57	81	91	95	54
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1202	1202	1202	1202	1202
2.5°	1193	1197	1207	1206	1202
5°	1188	1192	1205	1201	1198
7.5°	1179	1185	1195	1194	1190
10°	1167	1172	1185	1185	1181
12.5°	1152	1155	1169	1173	1171
15°	1131	1138	1155	1155	1156
17.5°	1108	1115	1132	1138	1139
20°	1085	1089	1107	1118	1119
22.5°	1054	1064	1085	1096	1100
25°	1026	1033	1053	1069	1078
27.5°	989	999	1023	1042	1047
30°	956	963	990	1013	1023
32.5°	917	927	956	984	992
35°	877	889	922	954	964
37.5°	838	852	886	923	941
40°	799	813	848	889	904
42.5°	756	771	810	857	873
45°	713	732	773	822	840
47.5°	677	687	735	787	808
50°	631	645	697	751	777
52.5°	587	606	657	715	744
55°	542	560	616	678	701
57.5°	497	516	577	637	663
60°	453	472	535	597	625
62.5°	415	432	493	560	587
65°	367	388	452	515	550
67.5°	322	345	411	476	503
70°	281	303	367	431	462
72.5°	233	261	325	389	420
75°	192	216	281	343	367
77.5°	151	175	236	284	305
80°	110	138	187	224	238
82.5°	75	97	136	161	170
85°	48	57	81	91	95
87.5°	19	23	26	23	21
90°	0	0	0	0	0

(END OF REPORT)