

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: P626501

Luminaire Tested: **24CZSCT3-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: P626501  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Issue Date: 11/22/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: METALUX  
 Catalog Number: 24CZSCT3-UNV-LOW-3500K  
 Description: 2X4, MID CCT, LOW LUMENS  
 Light Source: SELECTABLE LUMEN LED 80CRI / 3500K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 3736.7 lumens  
 Efficiency: N/A  
 Efficacy: 156.3 lumens/watt  
 Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.36  
 Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
 CIE Type: Direct

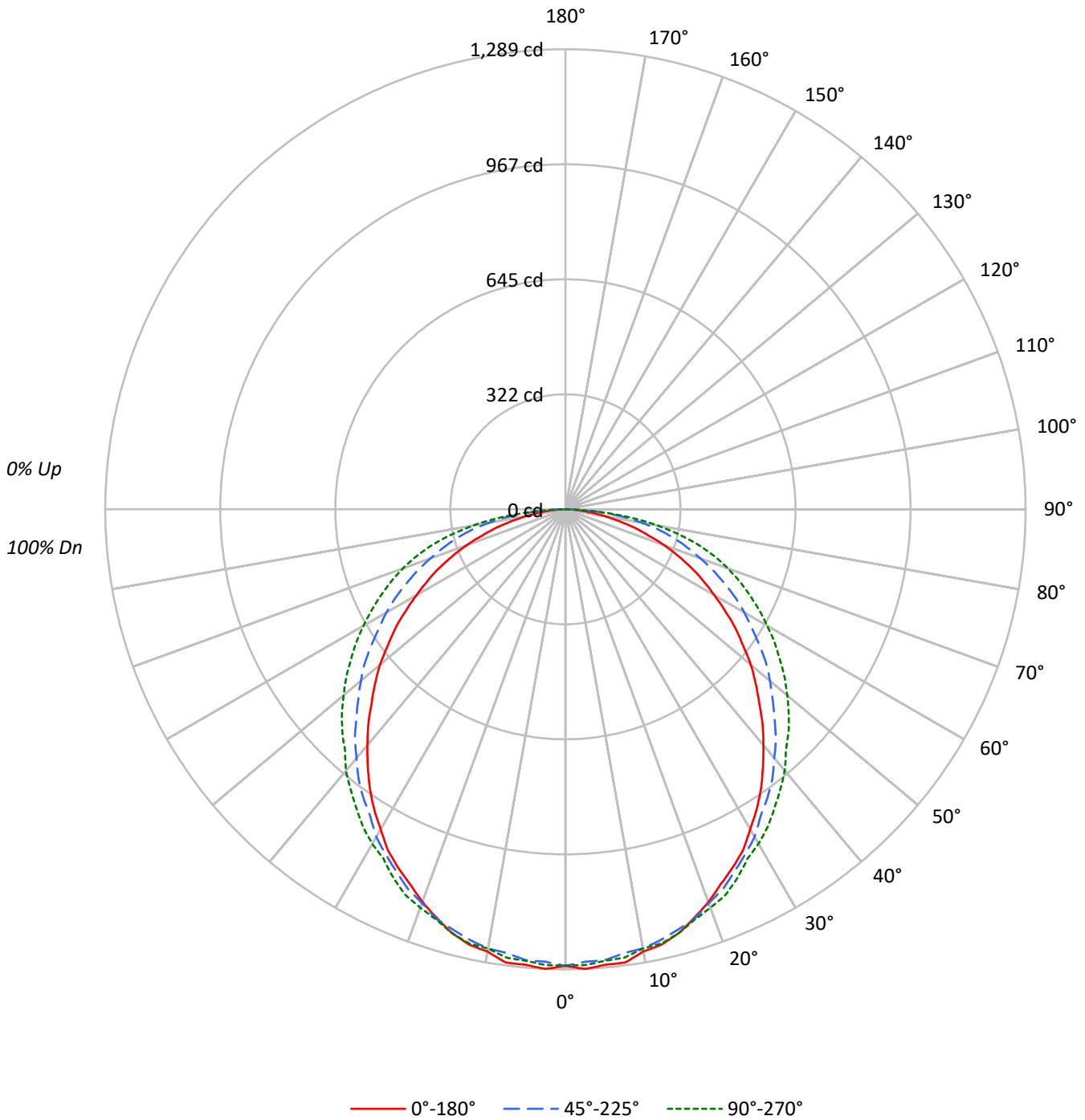
Input Watts (W): 23.9  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



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	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	84	84	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	70	70	70	68
3	89	78	70	63	86	76	69	62	73	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	56	51	60	55	50	50	50	50	48
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	44	44	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	38	38	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	34	34	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	30	30	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	27	27	27	26
10	52	39	31	25	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°	1721	1721	1721
5°	1730	1713	1715
10°	1719	1706	1708
15°	1712	1698	1712
20°	1677	1681	1701
25°	1645	1663	1692
30°	1608	1647	1681
35°	1569	1621	1677
40°	1516	1598	1679
45°	1461	1576	1682
50°	1419	1566	1698
55°	1365	1555	1719
60°	1297	1558	1757
65°	1245	1563	1815
70°	1164	1581	1904
75°	1045	1648	2007
80°	876	1689	2030
85°	648	1590	1775

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.0	3.2
10°-20°	345.0	9.2
20°-30°	518.0	13.9
30°-40°	617.9	16.5
40°-50°	640.0	17.1
50°-60°	590.9	15.8
60°-70°	480.5	12.9
70°-80°	319.8	8.6
80°-90°	103.6	2.8
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°	983.9	26.3
0°-40°	1601.8	42.9
0°-60°	2832.7	75.8
0°-90°	3736.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3736.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1281	1277	1268	1270	1270	122
15°	1229	1220	1219	1224	1229	345
25°	1108	1111	1120	1138	1140	510
35°	955	960	987	1014	1021	596
45°	768	789	828	867	884	594
55°	582	606	663	714	733	519
65°	391	421	491	548	570	385
75°	201	241	317	372	386	213
85°	42	75	103	115	115	53
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1279	1279	1279	1279	1279
2.5°	1289	1274	1269	1282	1278
5°	1281	1277	1268	1270	1270
7.5°	1281	1271	1254	1272	1267
10°	1258	1252	1249	1260	1250
12.5°	1249	1234	1236	1240	1246
15°	1229	1220	1219	1224	1229
17.5°	1200	1196	1203	1213	1205
20°	1171	1171	1174	1194	1188
22.5°	1137	1143	1152	1171	1170
25°	1108	1111	1120	1138	1140
27.5°	1077	1078	1090	1113	1104
30°	1035	1042	1060	1077	1082
32.5°	997	1002	1018	1047	1055
35°	955	960	987	1014	1021
37.5°	909	917	952	982	989
40°	863	877	910	947	956
42.5°	817	834	873	907	914
45°	768	789	828	867	884
47.5°	723	746	787	834	849
50°	678	696	748	799	811
52.5°	627	653	709	758	774
55°	582	606	663	714	733
57.5°	531	558	619	673	695
60°	482	511	579	637	653
62.5°	436	467	537	594	612
65°	391	421	491	548	570
67.5°	342	375	448	505	528
70°	296	329	402	461	484
72.5°	245	284	359	417	438
75°	201	241	317	372	386
77.5°	156	196	271	317	327
80°	113	157	218	251	262
82.5°	76	117	164	187	195
85°	42	75	103	115	115
87.5°	19	33	42	40	35
90°	0	0	0	0	0

(END OF REPORT)