

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: P626505

Luminaire Tested: **24CZSCT3-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: P626505  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Issue Date: 11/22/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: METALUX  
 Catalog Number: 24CZSCT3-UNV-MID-4000K  
 Description: 2X4, COOL CCT, MID LUMENS  
 Light Source: SELECTABLE LUMEN LED 80CRI / 4000K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 5073.3 lumens  
 Efficiency: N/A  
 Efficacy: 143.7 lumens/watt  
 Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.36  
 Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
 CIE Type: Direct

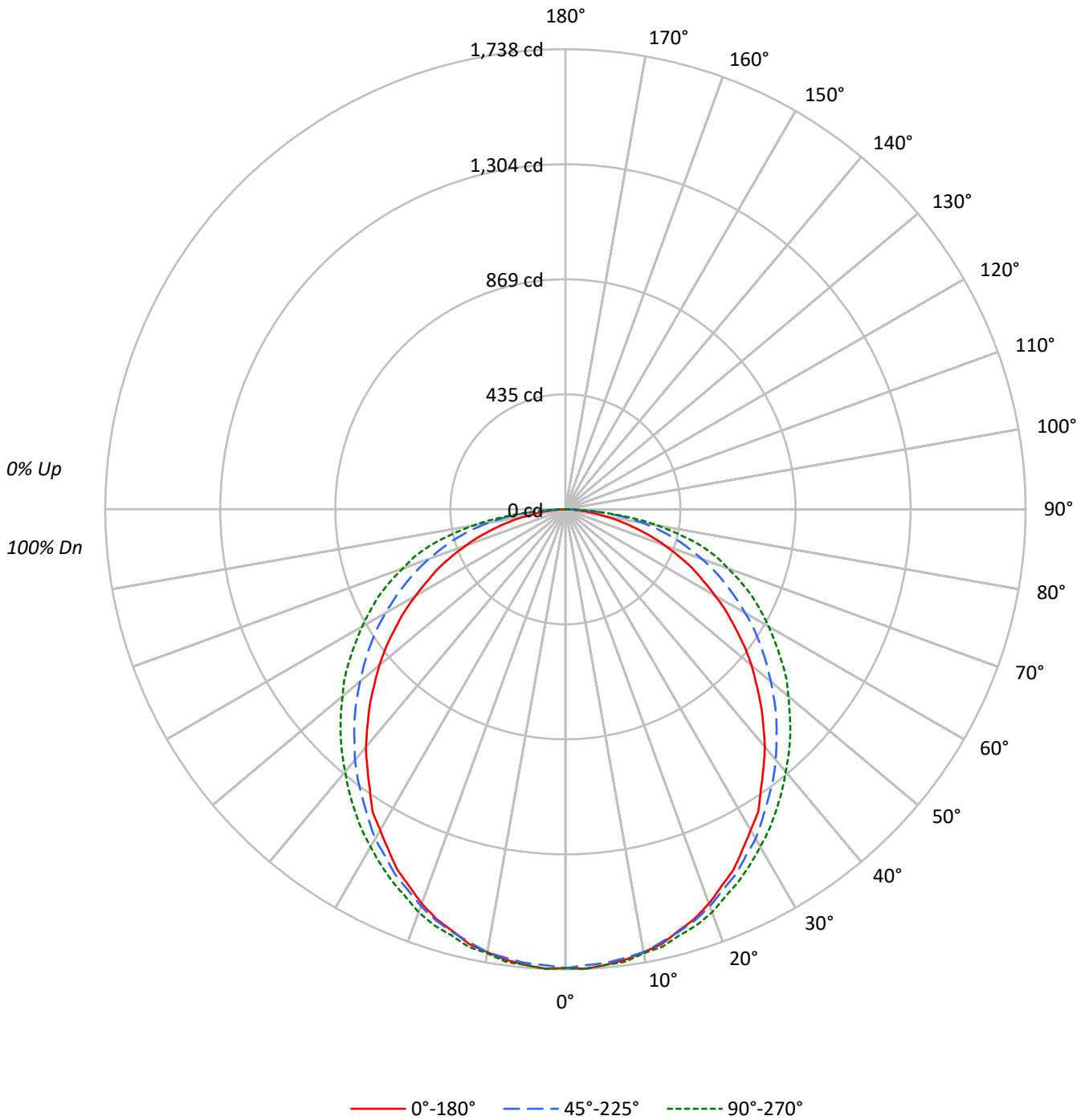
Input Watts (W): 35.3  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



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	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	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82				
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68				
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57				
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48				
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	42				
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36				
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32				
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29				
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26				
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23				

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

	0°	45°	90°
0°	2332	2332	2332
5°	2334	2324	2334
10°	2321	2321	2327
15°	2297	2303	2321
20°	2269	2284	2320
25°	2230	2260	2301
30°	2174	2233	2287
35°	2116	2193	2280
40°	2059	2171	2273
45°	1987	2144	2285
50°	1919	2118	2300
55°	1839	2111	2336
60°	1757	2110	2387
65°	1687	2124	2477
70°	1578	2156	2573
75°	1419	2225	2750
80°	1193	2294	2751
85°	911	2146	2269

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.2	3.2
10°-20°	468.3	9.2
20°-30°	702.2	13.8
30°-40°	838.8	16.5
40°-50°	869.2	17.1
50°-60°	802.6	15.8
60°-70°	652.9	12.9
70°-80°	435.0	8.6
80°-90°	140.1	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
<b>0°-30°</b>	<b>1334.7</b>	<b>26.3</b>
<b>0°-40°</b>	<b>2173.5</b>	<b>42.8</b>
<b>0°-60°</b>	<b>3845.2</b>	<b>75.8</b>
<b>0°-90°</b>	<b>5073.3</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>5073.3</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1728	1732	1721	1732	1728	164
15°	1649	1653	1653	1669	1666	466
25°	1502	1509	1522	1541	1550	690
35°	1288	1309	1335	1376	1388	807
45°	1044	1071	1127	1181	1201	805
55°	784	824	900	976	996	703
65°	530	571	667	747	778	522
75°	273	325	428	507	529	291
85°	59	103	139	155	147	72
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1733	1733	1733	1733	1733
2.5°	1737	1734	1724	1736	1738
5°	1728	1732	1721	1732	1728
7.5°	1717	1722	1710	1722	1724
10°	1699	1703	1699	1706	1703
12.5°	1682	1683	1675	1693	1693
15°	1649	1653	1653	1669	1666
17.5°	1622	1627	1628	1647	1648
20°	1585	1590	1595	1616	1620
22.5°	1541	1554	1556	1582	1582
25°	1502	1509	1522	1541	1550
27.5°	1449	1463	1476	1505	1512
30°	1399	1411	1437	1463	1472
32.5°	1355	1366	1385	1419	1433
35°	1288	1309	1335	1376	1388
37.5°	1229	1251	1288	1331	1343
40°	1172	1197	1236	1284	1294
42.5°	1106	1134	1180	1233	1249
45°	1044	1071	1127	1181	1201
47.5°	978	1009	1070	1135	1150
50°	917	947	1012	1086	1099
52.5°	853	883	957	1027	1052
55°	784	824	900	976	996
57.5°	722	759	846	920	940
60°	653	698	784	863	887
62.5°	588	635	726	804	832
65°	530	571	667	747	778
67.5°	465	510	610	689	717
70°	401	448	548	631	654
72.5°	338	386	487	572	598
75°	273	325	428	507	529
77.5°	214	267	365	428	442
80°	154	214	296	345	355
82.5°	103	158	223	256	257
85°	59	103	139	155	147
87.5°	25	43	55	54	49
90°	0	0	0	0	0

(END OF REPORT)