

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: P626504

Luminaire Tested: **24CZSCT3-UNV-MID-3500K**

Issue Date: 11/22/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P626504  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Issue Date: 11/22/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: METALUX  
 Catalog Number: 24CZSCT3-UNV-MID-3500K  
 Description: 2X4, MID CCT, MID LUMENS  
 Light Source: SELECTABLE LUMEN LED 80CRI / 3500K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 5165.6 lumens  
 Efficiency: N/A  
 Efficacy: 153.3 lumens/watt  
 Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36  
 Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
 CIE Type: Direct

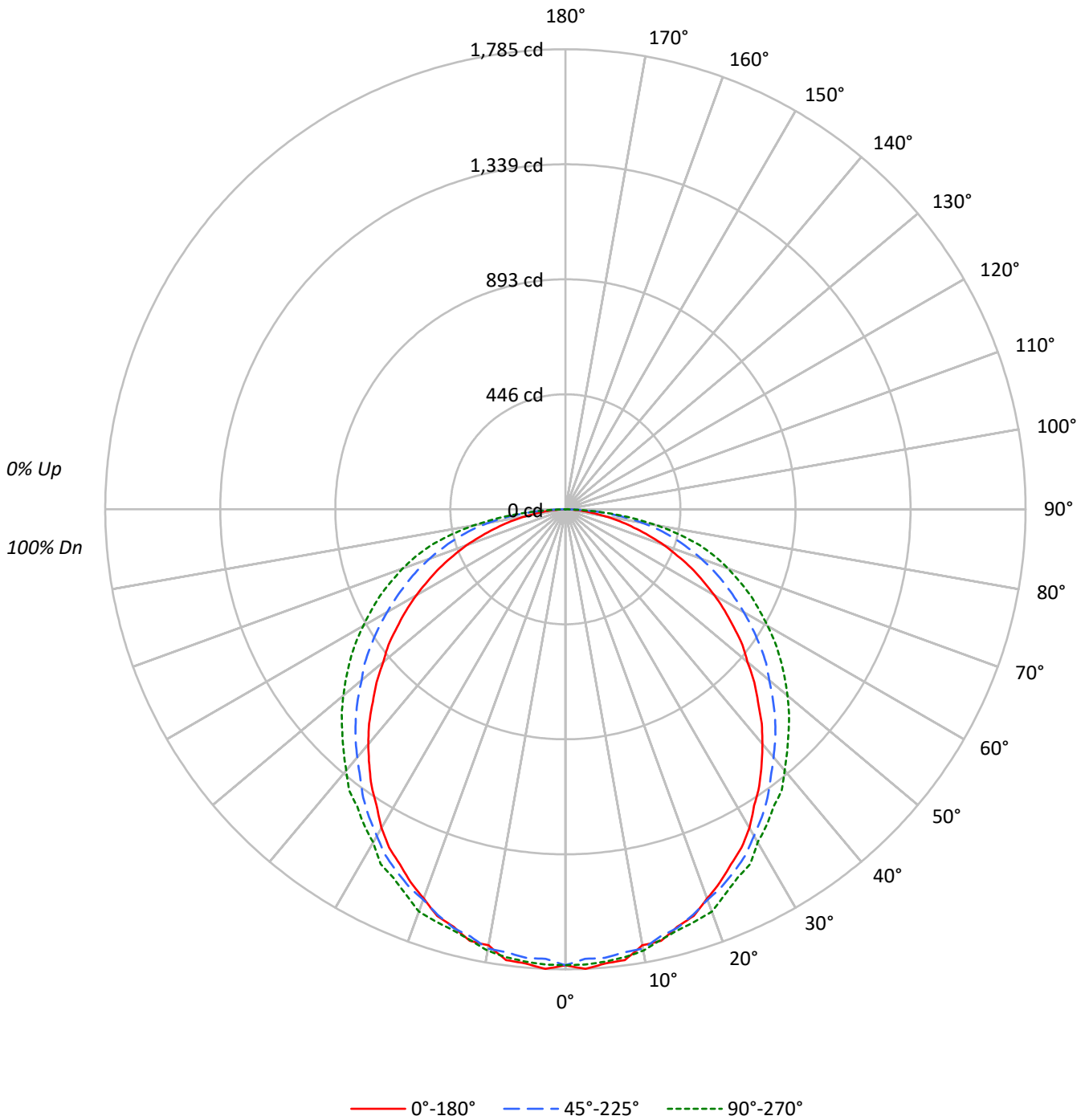
Input Watts (W): 33.7  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



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°	2380	2380	2380
5°	2389	2360	2380
10°	2347	2365	2376
15°	2336	2342	2354
20°	2301	2308	2378
25°	2257	2301	2343
30°	2217	2273	2318
35°	2153	2245	2313
40°	2088	2206	2324
45°	2009	2188	2329
50°	1930	2160	2353
55°	1870	2160	2390
60°	1798	2150	2438
65°	1716	2165	2525
70°	1605	2207	2640
75°	1430	2277	2807
80°	1224	2371	2805
85°	926	2223	2424

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.4	3.2
10°-20°	476.7	9.2
20°-30°	716.0	13.9
30°-40°	853.7	16.5
40°-50°	884.6	17.1
50°-60°	817.1	15.8
60°-70°	664.4	12.9
70°-80°	443.1	8.6
80°-90°	142.6	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°	1360.2	26.3
0°-40°	2213.9	42.9
0°-60°	3915.5	75.8
0°-90°	5165.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5165.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1769	1769	1769	1769	1769	
5°	1769	1773	1747	1765	1762	168
15°	1677	1695	1681	1703	1690	474
25°	1520	1539	1550	1571	1578	702
35°	1311	1326	1367	1402	1408	819
45°	1056	1087	1150	1205	1224	817
55°	797	827	921	993	1019	713
65°	539	581	680	762	793	531
75°	275	329	438	514	540	294
85°	60	102	144	155	157	73
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1769	1769	1769	1769	1769
2.5°	1785	1773	1746	1775	1768
5°	1769	1773	1747	1765	1762
7.5°	1764	1751	1734	1762	1753
10°	1718	1743	1731	1751	1739
12.5°	1715	1722	1698	1718	1711
15°	1677	1695	1681	1703	1690
17.5°	1654	1659	1649	1673	1676
20°	1607	1622	1612	1649	1661
22.5°	1567	1586	1585	1618	1617
25°	1520	1539	1550	1571	1578
27.5°	1480	1487	1513	1535	1552
30°	1427	1441	1463	1493	1492
32.5°	1363	1384	1417	1451	1453
35°	1311	1326	1367	1402	1408
37.5°	1250	1269	1308	1360	1377
40°	1189	1209	1256	1308	1323
42.5°	1127	1150	1205	1255	1273
45°	1056	1087	1150	1205	1224
47.5°	994	1026	1092	1156	1177
50°	922	965	1032	1098	1124
52.5°	866	901	981	1047	1072
55°	797	827	921	993	1019
57.5°	733	773	860	935	965
60°	668	710	799	874	906
62.5°	601	642	739	819	848
65°	539	581	680	762	793
67.5°	470	515	622	701	730
70°	408	455	561	640	671
72.5°	340	393	499	580	609
75°	275	329	438	514	540
77.5°	217	271	374	437	452
80°	158	217	306	352	362
82.5°	104	161	223	260	260
85°	60	102	144	155	157
87.5°	24	47	59	51	49
90°	0	0	0	0	0

(END OF REPORT)