

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: P626497

Luminaire Tested: **24CZSCT3-UNV-HIGH-3000K**

Issue Date: 11/22/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P626497  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Issue Date: 11/22/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: METALUX  
 Catalog Number: 24CZSCT3-UNV-HIGH-3000K  
 Description: 2X4, WARM CCT, HIGH LUMENS  
 Light Source: SELECTABLE LUMEN LED 80CRI / 3000K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 5971.9 lumens  
 Efficiency: N/A  
 Efficacy: 127.9 lumens/watt  
 Spacing Criteria (0/90/45): 1.2 / 1.27 / 1.36  
 Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
 CIE Type: Direct

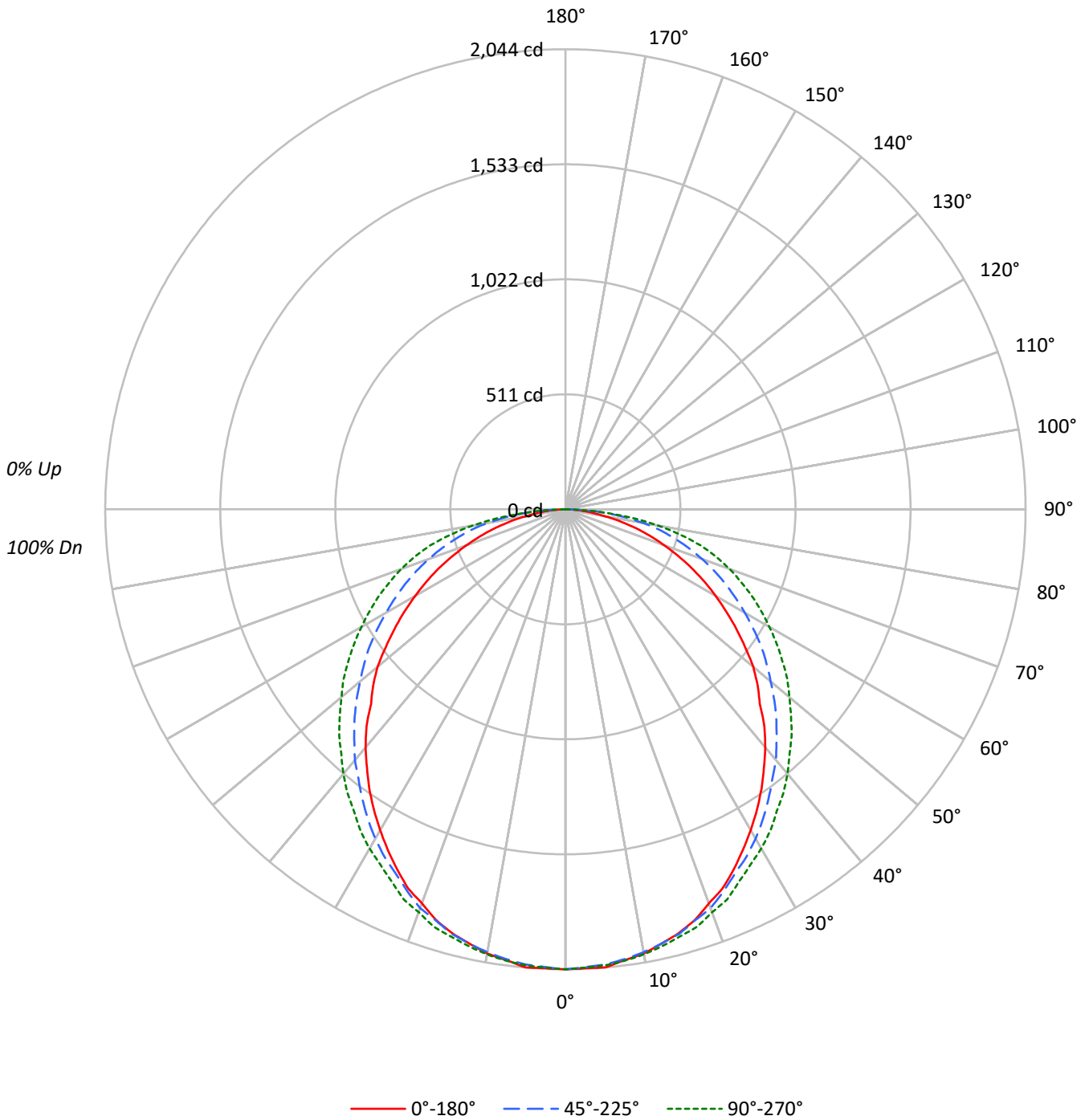
Input Watts (W): 46.7  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



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	
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			100	
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82			82	
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68			68	
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57			57	
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48			48	
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	42			42	
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36			36	
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32			32	
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28			28	
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26			26	
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23			23	

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

	0°	45°	90°
0°	2750	2750	2750
5°	2759	2742	2747
10°	2738	2730	2743
15°	2715	2720	2737
20°	2668	2700	2728
25°	2623	2648	2709
30°	2557	2624	2703
35°	2493	2582	2689
40°	2426	2554	2694
45°	2323	2521	2704
50°	2280	2491	2717
55°	2175	2491	2761
60°	2075	2476	2817
65°	1971	2496	2913
70°	1837	2537	3053
75°	1679	2610	3239
80°	1395	2727	3247
85°	1065	2578	2810

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.2	3.2
10°-20°	551.3	9.2
20°-30°	826.7	13.8
30°-40°	986.8	16.5
40°-50°	1023.1	17.1
50°-60°	944.3	15.8
60°-70°	767.5	12.9
70°-80°	512.4	8.6
80°-90°	166.6	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°	1571.2	26.3
0°-40°	2558.0	42.8
0°-60°	4525.4	75.8
0°-90°	5971.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5971.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2044	2044	2044	2044	2044	
5°	2043	2034	2030	2034	2034	193
15°	1949	1952	1953	1962	1965	549
25°	1767	1777	1784	1820	1825	813
35°	1518	1536	1572	1619	1637	949
45°	1221	1260	1325	1388	1421	950
55°	927	966	1062	1142	1177	830
65°	619	672	784	879	915	612
75°	323	386	502	595	623	341
85°	69	118	167	185	182	84
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2044	2044	2044	2044	2044
2.5°	2041	2049	2036	2032	2038
5°	2043	2034	2030	2034	2034
7.5°	2020	2032	2016	2014	2023
10°	2004	2009	1998	2010	2008
12.5°	1976	1981	1976	1988	1988
15°	1949	1952	1953	1962	1965
17.5°	1913	1904	1915	1934	1945
20°	1863	1870	1886	1899	1905
22.5°	1824	1829	1836	1857	1877
25°	1767	1777	1784	1820	1825
27.5°	1707	1717	1741	1765	1780
30°	1646	1665	1689	1721	1740
32.5°	1583	1601	1633	1674	1694
35°	1518	1536	1572	1619	1637
37.5°	1448	1470	1510	1563	1590
40°	1381	1404	1454	1506	1534
42.5°	1308	1332	1388	1454	1474
45°	1221	1260	1325	1388	1421
47.5°	1158	1189	1259	1332	1359
50°	1089	1116	1190	1274	1298
52.5°	1006	1038	1126	1207	1243
55°	927	966	1062	1142	1177
57.5°	848	895	990	1082	1113
60°	771	817	920	1017	1047
62.5°	696	744	852	948	981
65°	619	672	784	879	915
67.5°	542	597	716	810	844
70°	467	529	645	741	776
72.5°	395	455	576	669	702
75°	323	386	502	595	623
77.5°	252	313	433	507	524
80°	180	250	352	407	419
82.5°	122	187	262	305	310
85°	69	118	167	185	182
87.5°	28	53	68	64	62
90°	0	0	0	0	0

(END OF REPORT)