

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: P626480

Luminaire Tested: **14CZSCT3-UNV-HIGH-3500K**

Issue Date: 11/22/2022

Tested By:

Approved By:



Cooper Lighting Solutions laboratories have been accredited by National Voluntary Laboratory Accreditation Program (NVLAP) that it adheres to the requirements of ISO/IEC 17025:2005 and appropriate IESNA test methods. This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. Results contained in this report are valid for luminaire sample tested, as supplied by requestor. Information related to the luminaire tested has been supplied by requestor and can affect the validity of the test results. Report shall not be reproduced except in full without approval of Cooper Lighting Solutions Lighting Laboratory. Test performed at address noted above.

Test Information

Test Method: LM-79-08
 Report Number: P626480
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 11/22/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: METALUX
 Catalog Number: 14CZSCT3-UNV-HIGH-3500K
 Description: 1x4, MID CCT, HIGH LUMENS
 Light Source: SELECTABLE LUMEN LED 80CRI / 3500K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 4400.8 lumens
 Efficiency: N/A
 Efficacy: 151.2 lumens/watt
 Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.38
 Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
 CIE Type: Direct

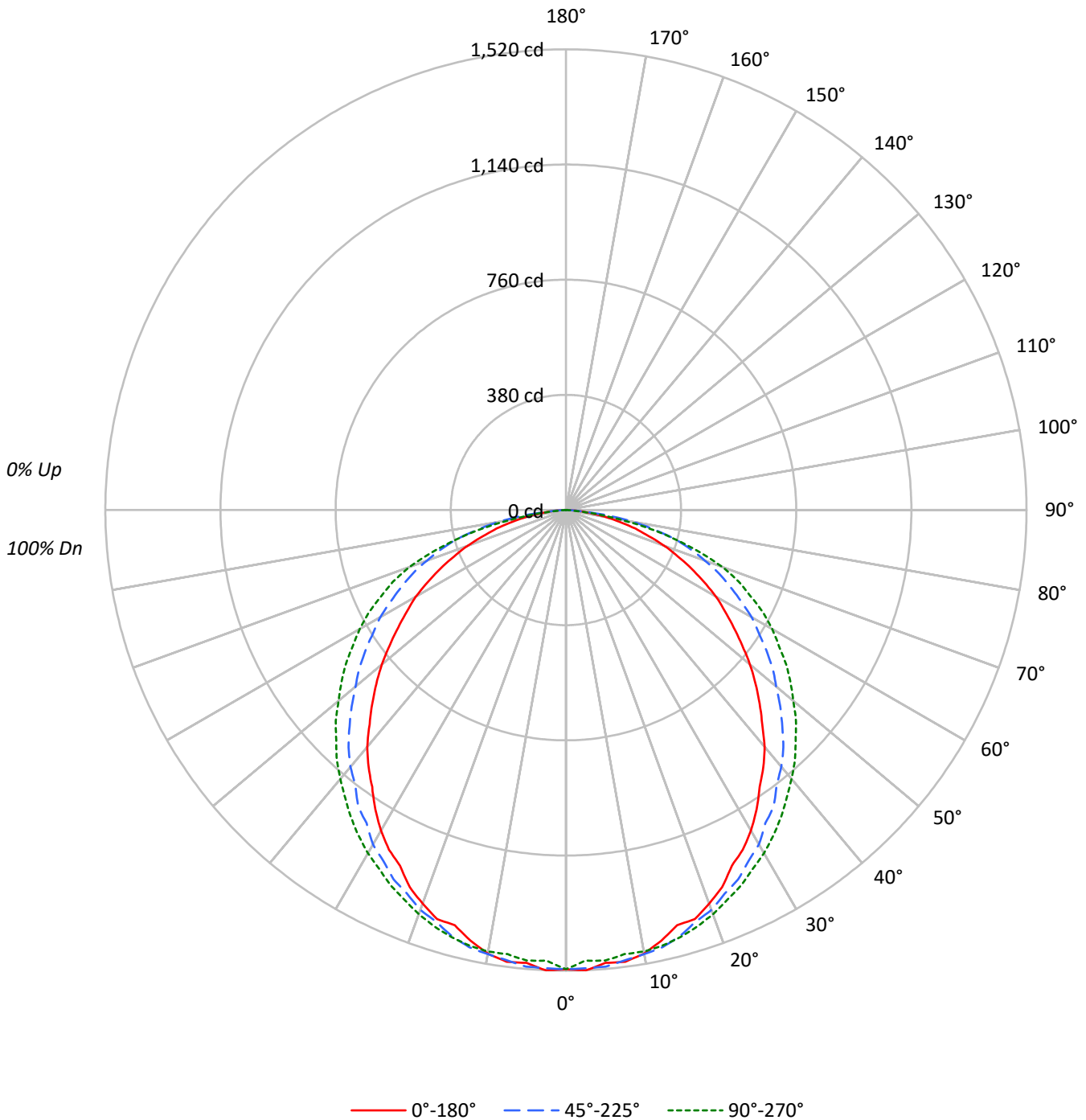
Input Watts (W): 29.1
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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

TEST NUMBER: P626480
CATALOG NUMBER: 14CZSCT3-UNV-HIGH-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P626480
 CATALOG NUMBER: 14CZSCT3-UNV-HIGH-3500K

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	102	102	102	100	
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	85	85	85	83	
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	71	71	71	69	
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	60	60	60	58	
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	51	51	51	49	
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	44	44	44	42	
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	39	39	39	37	
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	35	35	35	32	
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	31	31	31	29	
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	28	28	28	26	
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	25	25	25	24	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4077	4077	4077
5°	4052	4084	4030
10°	4060	4066	4041
15°	3950	4053	4065
20°	3958	4021	4064
25°	3845	3994	4059
30°	3794	3959	4061
35°	3663	3926	4064
40°	3583	3885	4068
45°	3440	3844	4080
50°	3320	3793	4099
55°	3172	3786	4161
60°	3078	3810	4230
65°	2910	3808	4279
70°	2722	3840	4327
75°	2464	3878	3878
80°	2061	3456	2820
85°	1482	1822	834

TEST NUMBER: P626480
 CATALOG NUMBER: 14CZSCT3-UNV-HIGH-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.3
10°-20°	409.9	9.3
20°-30°	618.3	14.0
30°-40°	742.1	16.9
40°-50°	772.3	17.5
50°-60°	711.0	16.2
60°-70°	575.0	13.1
70°-80°	352.7	8.0
80°-90°	76.2	1.7
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°	1171.6	26.6
0°-40°	1913.7	43.5
0°-60°	3396.9	77.2
0°-90°	4400.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4400.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1500	1515	1512	1522	1492	143
15°	1418	1445	1455	1474	1459	404
25°	1295	1318	1345	1368	1367	600
35°	1115	1140	1195	1229	1237	701
45°	904	942	1010	1072	1072	698
55°	676	726	807	871	887	607
65°	457	503	598	656	672	452
75°	237	290	373	382	373	249
85°	48	76	59	34	27	59
90°	0	0	0	0	0	

TEST NUMBER: P626480
 CATALOG NUMBER: 14CZSCT3-UNV-HIGH-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1515	1515	1515	1515	1515
2.5°	1520	1514	1513	1511	1488
5°	1500	1515	1512	1522	1492
7.5°	1503	1487	1498	1513	1478
10°	1486	1498	1488	1500	1479
12.5°	1455	1466	1477	1481	1472
15°	1418	1445	1455	1474	1459
17.5°	1415	1418	1424	1449	1441
20°	1382	1386	1404	1423	1419
22.5°	1347	1355	1370	1407	1392
25°	1295	1318	1345	1368	1367
27.5°	1264	1279	1305	1341	1335
30°	1221	1239	1274	1306	1307
32.5°	1171	1190	1225	1271	1274
35°	1115	1140	1195	1229	1237
37.5°	1070	1095	1142	1196	1197
40°	1020	1048	1106	1151	1158
42.5°	959	992	1062	1106	1119
45°	904	942	1010	1072	1072
47.5°	849	885	959	1016	1030
50°	793	831	906	961	979
52.5°	733	775	860	920	934
55°	676	726	807	871	887
57.5°	622	668	754	815	833
60°	572	613	708	762	786
62.5°	513	561	651	707	734
65°	457	503	598	656	672
67.5°	400	448	547	608	617
70°	346	394	488	538	550
72.5°	287	342	433	470	463
75°	237	290	373	382	373
77.5°	181	238	300	291	284
80°	133	189	223	200	182
82.5°	85	140	141	114	99
85°	48	76	59	34	27
87.5°	19	21	6	5	4
90°	0	0	0	0	0

(END OF REPORT)