

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: P626481

Luminaire Tested: **14CZSCT3-UNV-HIGH-4000K**

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: P626481
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 11/22/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: METALUX
 Catalog Number: 14CZSCT3-UNV-HIGH-4000K
 Description: 1x4, COOL CCT, HIGH LUMENS
 Light Source: SELECTABLE LUMEN LED 80CRI / 4000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 4362.1 lumens
 Efficiency: N/A
 Efficacy: 144.0 lumens/watt
 Spacing Criteria (0/90/45): 1.2 / 1.29 / 1.38
 Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
 CIE Type: Direct

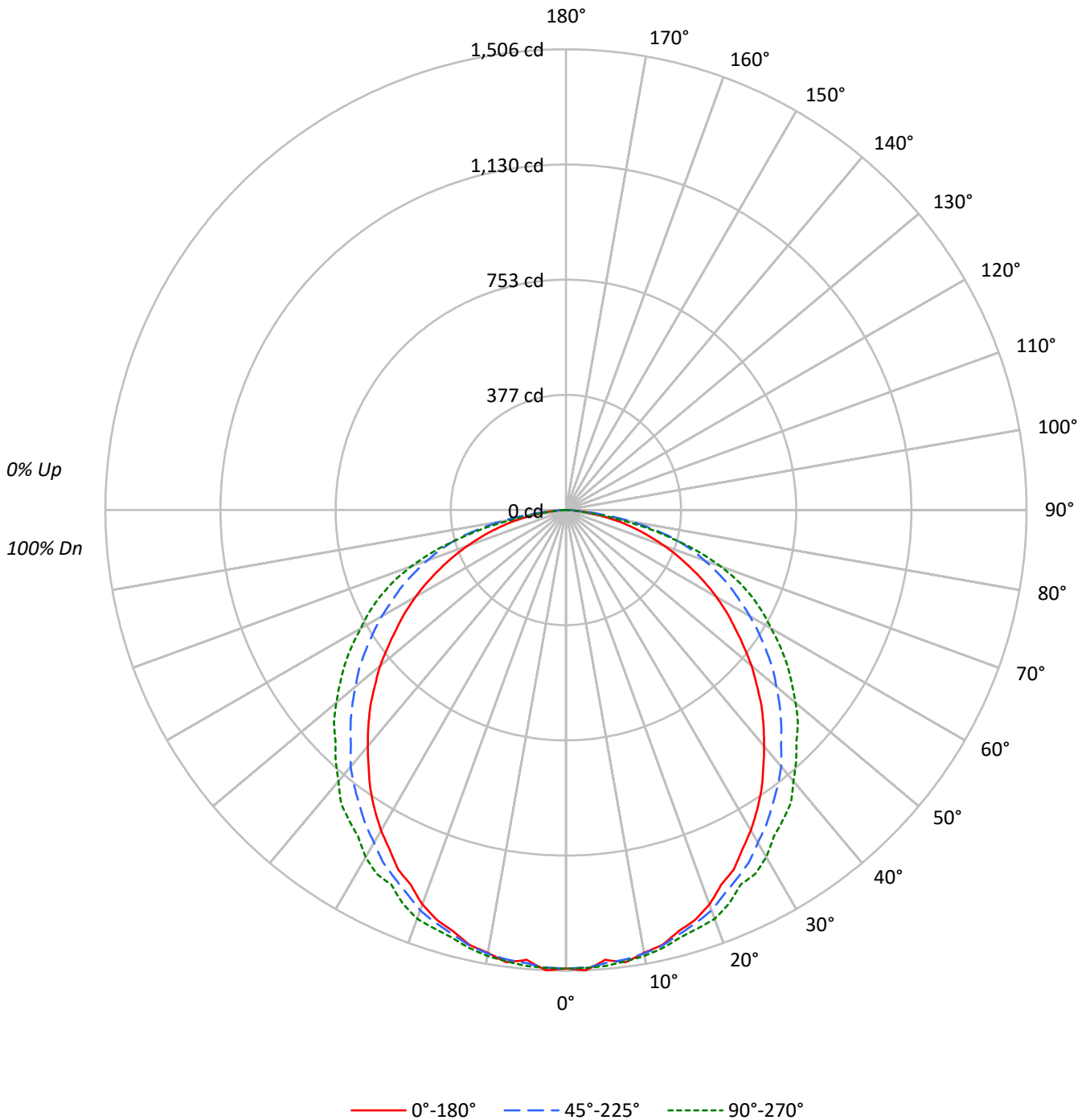
Input Watts (W): 30.3
 Input Voltage (V): NR
 Input Current (A_{in}): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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: P626481
CATALOG NUMBER: 14CZSCT3-UNV-HIGH-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P626481
 CATALOG NUMBER: 14CZSCT3-UNV-HIGH-4000K

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	100	100	100	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83	83	83	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69	69	69	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58	58	58	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49	49	49	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42	42	42	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37	37	37	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33	33	33	33
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29	29	29	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26	26	26	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4034	4034	4034
5°	3987	4017	4041
10°	4017	4022	4044
15°	3970	3998	4028
20°	3929	3989	4072
25°	3851	3940	4011
30°	3757	3900	4071
35°	3663	3867	4064
40°	3541	3847	4064
45°	3440	3790	4057
50°	3320	3759	4103
55°	3172	3749	4143
60°	3057	3740	4171
65°	2884	3769	4273
70°	2691	3800	4233
75°	2443	3847	3743
80°	2030	3332	2727
85°	1544	1729	648

TEST NUMBER: P626481
 CATALOG NUMBER: 14CZSCT3-UNV-HIGH-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	3.3
10°-20°	406.3	9.3
20°-30°	613.3	14.1
30°-40°	736.9	16.9
40°-50°	766.3	17.6
50°-60°	706.2	16.2
60°-70°	569.5	13.1
70°-80°	347.8	8.0
80°-90°	73.9	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°	1161.6	26.6
0°-40°	1898.5	43.5
0°-60°	3370.9	77.3
0°-90°	4362.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4362.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1499	1499	1499	1499	1499	
5°	1476	1494	1487	1497	1496	142
15°	1425	1430	1435	1458	1446	403
25°	1297	1304	1327	1367	1351	595
35°	1115	1134	1177	1223	1237	696
45°	904	932	996	1056	1066	696
55°	676	716	799	861	883	606
65°	453	499	592	654	671	450
75°	235	286	370	376	360	248
85°	50	76	56	31	21	60
90°	0	0	0	0	0	

TEST NUMBER: P626481
 CATALOG NUMBER: 14CZSCT3-UNV-HIGH-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1499	1499	1499	1499	1499
2.5°	1506	1496	1497	1506	1498
5°	1476	1494	1487	1497	1496
7.5°	1491	1484	1482	1493	1488
10°	1470	1468	1472	1480	1480
12.5°	1456	1454	1458	1468	1466
15°	1425	1430	1435	1458	1446
17.5°	1405	1401	1415	1433	1434
20°	1372	1373	1393	1410	1422
22.5°	1326	1341	1357	1386	1393
25°	1297	1304	1327	1367	1351
27.5°	1250	1267	1297	1334	1341
30°	1209	1225	1255	1293	1310
32.5°	1163	1179	1219	1259	1265
35°	1115	1134	1177	1223	1237
37.5°	1060	1086	1137	1187	1208
40°	1008	1036	1095	1143	1157
42.5°	956	986	1041	1102	1114
45°	904	932	996	1056	1066
47.5°	846	881	948	1009	1029
50°	793	827	898	962	980
52.5°	733	772	852	911	931
55°	676	716	799	861	883
57.5°	623	663	747	811	831
60°	568	607	695	764	775
62.5°	511	554	640	707	726
65°	453	499	592	654	671
67.5°	399	445	536	596	610
70°	342	391	483	537	538
72.5°	287	340	429	460	457
75°	235	286	370	376	360
77.5°	183	237	297	284	272
80°	131	189	215	191	176
82.5°	86	137	136	109	96
85°	50	76	56	31	21
87.5°	20	19	6	5	4
90°	0	0	0	0	0

(END OF REPORT)