

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: P626483

Luminaire Tested: **14CZSCT3-UNV-LOW-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: P626483
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 11/22/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: METALUX
 Catalog Number: 14CZSCT3-UNV-LOW-3500K
 Description: 1x4, MID CCT, LOW LUMENS
 Light Source: SELECTABLE LUMEN LED 80CRI / 3500K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 3166.8 lumens
 Efficiency: N/A
 Efficacy: 156.0 lumens/watt
 Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
 Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
 CIE Type: Direct

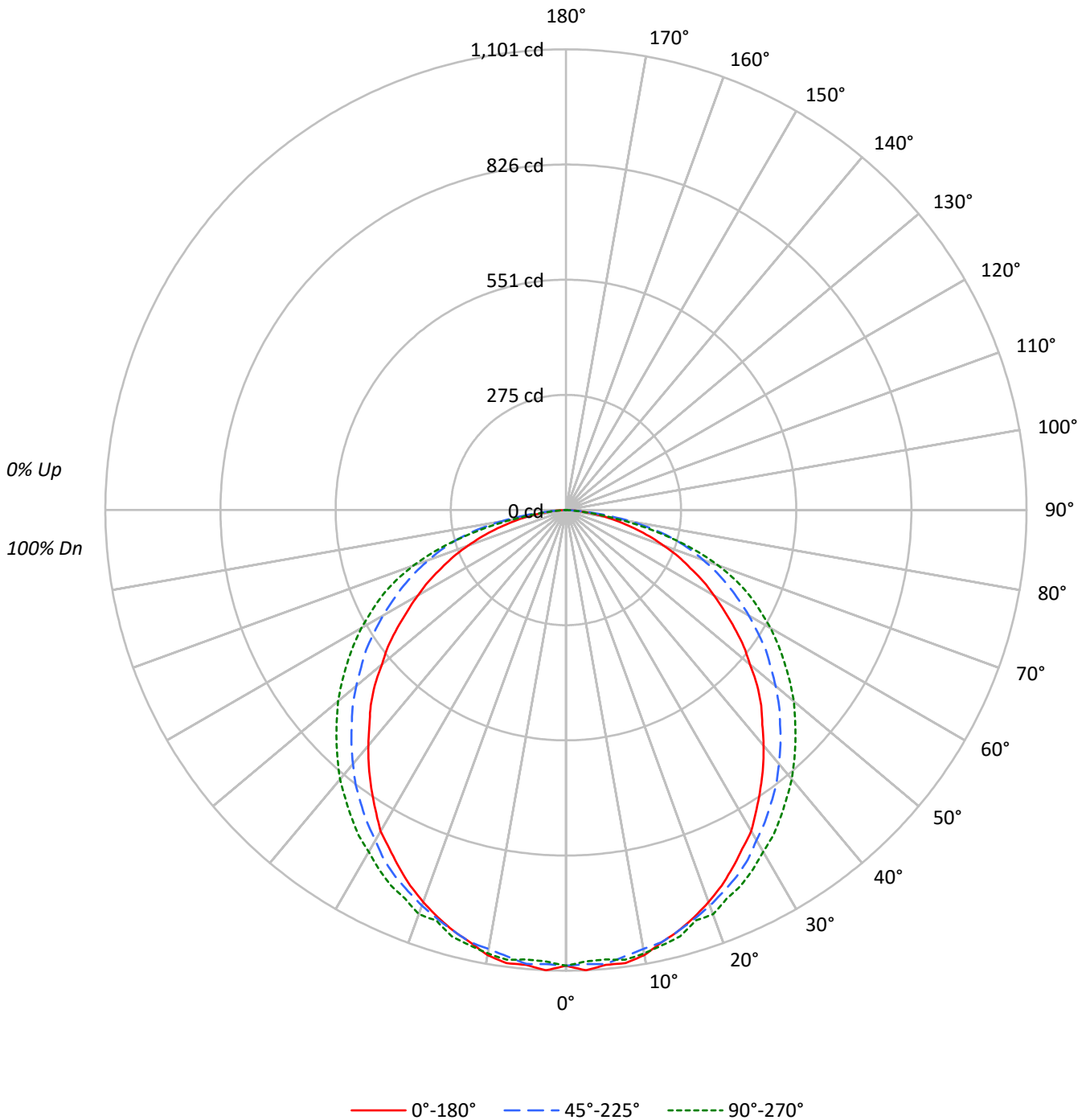
Input Watts (W): 20.3
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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

TEST NUMBER: P626483
CATALOG NUMBER: 14CZSCT3-UNV-LOW-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P626483
 CATALOG NUMBER: 14CZSCT3-UNV-LOW-3500K

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	109	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	90	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	80	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	45	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	33
8	60	46	38	32	58	45	37	32	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°	2930	2930	2930
5°	2947	2942	2912
10°	2951	2910	2940
15°	2900	2900	2939
20°	2855	2881	2944
25°	2800	2868	2939
30°	2753	2831	2930
35°	2664	2809	2940
40°	2582	2782	2951
45°	2512	2755	2953
50°	2403	2738	2977
55°	2308	2735	2993
60°	2201	2718	3041
65°	2089	2725	3088
70°	1959	2746	3045
75°	1757	2776	2734
80°	1488	2448	1999
85°	1081	1235	494

TEST NUMBER: P626483
 CATALOG NUMBER: 14CZSCT3-UNV-LOW-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	3.3
10°-20°	294.8	9.3
20°-30°	445.5	14.1
30°-40°	534.7	16.9
40°-50°	556.4	17.6
50°-60°	513.5	16.2
60°-70°	413.2	13.0
70°-80°	252.4	8.0
80°-90°	53.1	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°	843.5	26.6
0°-40°	1378.2	43.5
0°-60°	2448.0	77.3
0°-90°	3166.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3166.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1089	1089	1089	1089	1089	
5°	1091	1080	1089	1088	1078	104
15°	1041	1037	1041	1059	1055	293
25°	943	943	966	992	990	435
35°	811	819	855	891	895	508
45°	660	675	724	766	776	507
55°	492	521	583	628	638	440
65°	328	361	428	474	485	326
75°	169	208	267	274	263	180
85°	35	55	40	21	16	43
90°	0	0	0	0	0	

TEST NUMBER: P626483
 CATALOG NUMBER: 14CZSCT3-UNV-LOW-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1089	1089	1089	1089	1089
2.5°	1101	1084	1086	1091	1080
5°	1091	1080	1089	1088	1078
7.5°	1092	1077	1076	1087	1084
10°	1080	1063	1065	1077	1076
12.5°	1058	1051	1058	1066	1065
15°	1041	1037	1041	1059	1055
17.5°	1020	1016	1024	1043	1029
20°	997	990	1006	1030	1028
22.5°	972	972	986	1010	1005
25°	943	943	966	992	990
27.5°	913	920	942	967	968
30°	886	887	911	947	943
32.5°	848	854	885	918	922
35°	811	819	855	891	895
37.5°	774	784	826	858	867
40°	735	751	792	829	840
42.5°	695	714	759	796	808
45°	660	675	724	766	776
47.5°	620	639	691	733	743
50°	574	600	654	700	711
52.5°	536	562	617	665	675
55°	492	521	583	628	638
57.5°	449	480	543	593	602
60°	409	442	505	554	565
62.5°	371	405	466	513	524
65°	328	361	428	474	485
67.5°	291	323	390	432	440
70°	249	286	349	390	387
72.5°	209	247	310	335	330
75°	169	208	267	274	263
77.5°	131	173	216	206	196
80°	96	136	158	140	129
82.5°	62	97	98	78	67
85°	35	55	40	21	16
87.5°	13	14	4	3	3
90°	0	0	0	0	0

(END OF REPORT)