

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: P626485

Luminaire Tested: **14CZSCT3-UNV-MID-3000K**

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.

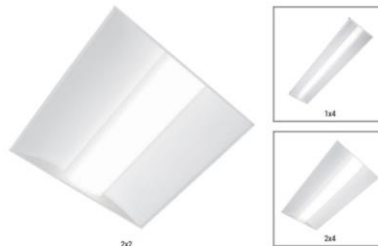
Test Information

Test Method: LM-79-08
 Report Number: P626485
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 11/22/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: METALUX
 Catalog Number: 14CZSCT3-UNV-MID-3000K
 Description: 1x4, WARM CCT, MID LUMENS
 Light Source: SELECTABLE LUMEN LED 80CRI / 3000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 3657.8 lumens
 Efficiency: N/A
 Efficacy: 138.0 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

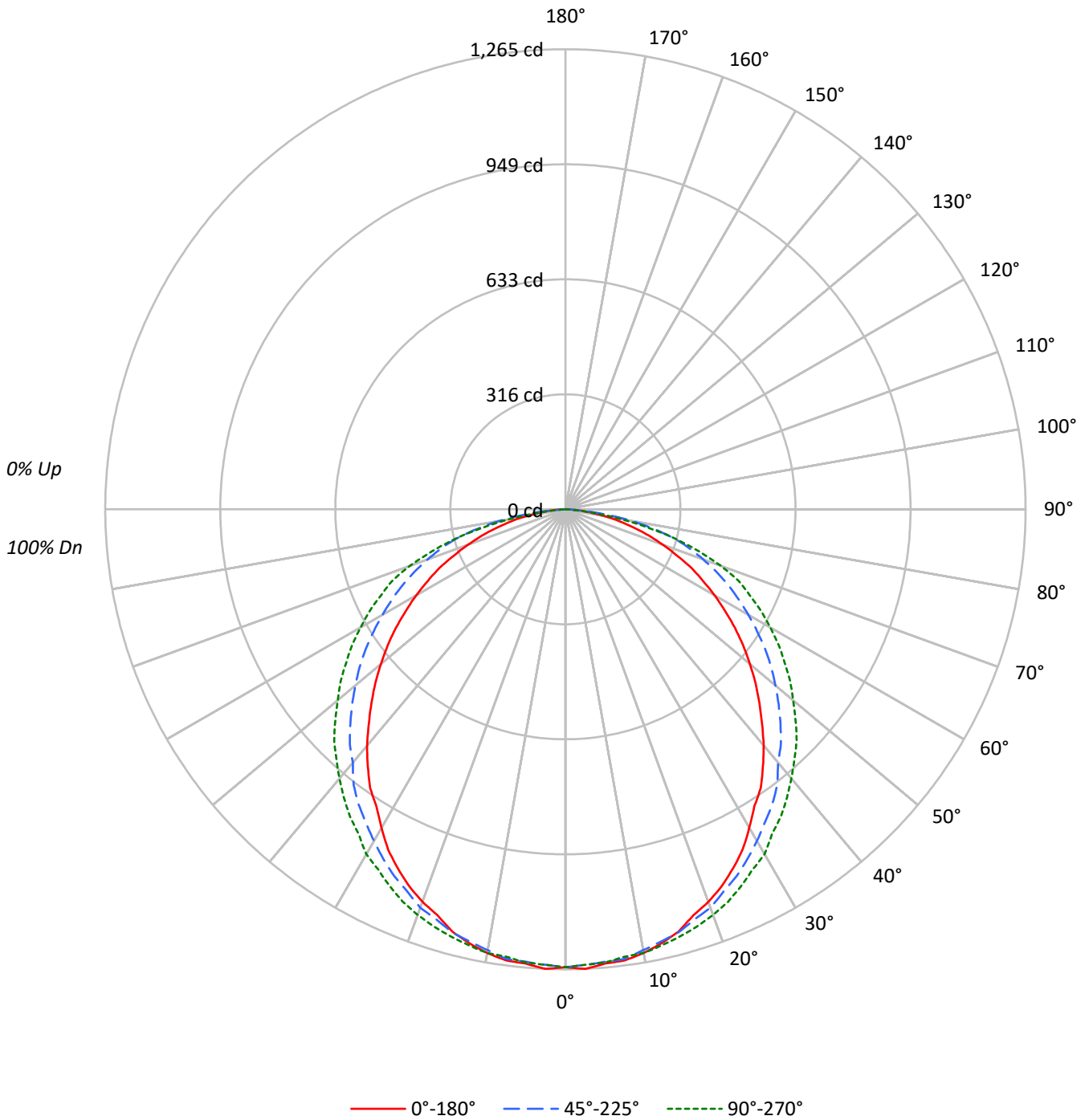
Input Watts (W): 26.5
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3388	3388	3388
5°	3387	3374	3379
10°	3386	3364	3386
15°	3349	3354	3388
20°	3290	3339	3399
25°	3236	3305	3394
30°	3141	3272	3402
35°	3075	3256	3390
40°	2979	3193	3393
45°	2869	3181	3421
50°	2771	3157	3420
55°	2670	3143	3453
60°	2551	3127	3498
65°	2439	3145	3559
70°	2242	3171	3580
75°	2017	3223	3254
80°	1705	2867	2386
85°	1235	1451	679

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	3.3
10°-20°	340.8	9.3
20°-30°	514.2	14.1
30°-40°	617.1	16.9
40°-50°	641.7	17.5
50°-60°	591.4	16.2
60°-70°	476.8	13.0
70°-80°	293.0	8.0
80°-90°	63.7	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°	974.2	26.6
0°-40°	1591.3	43.5
0°-60°	2824.4	77.2
0°-90°	3657.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3657.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1254	1257	1249	1257	1251	119
15°	1202	1202	1204	1218	1216	338
25°	1090	1094	1113	1140	1143	501
35°	936	951	991	1029	1032	583
45°	754	782	836	884	899	582
55°	569	601	670	724	736	508
65°	383	417	494	547	559	376
75°	194	239	310	318	313	207
85°	40	65	47	31	22	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1259	1259	1259	1259	1259
2.5°	1265	1259	1254	1260	1254
5°	1254	1257	1249	1257	1251
7.5°	1251	1245	1247	1254	1241
10°	1239	1237	1231	1246	1239
12.5°	1222	1222	1217	1232	1228
15°	1202	1202	1204	1218	1216
17.5°	1170	1177	1182	1204	1203
20°	1149	1153	1166	1186	1187
22.5°	1122	1127	1137	1163	1168
25°	1090	1094	1113	1140	1143
27.5°	1055	1062	1084	1116	1116
30°	1011	1025	1053	1085	1095
32.5°	967	990	1021	1057	1058
35°	936	951	991	1029	1032
37.5°	892	907	956	992	1000
40°	848	865	909	956	966
42.5°	800	828	877	921	932
45°	754	782	836	884	899
47.5°	709	737	795	843	858
50°	662	692	754	804	817
52.5°	616	648	713	763	779
55°	569	601	670	724	736
57.5°	520	553	625	682	695
60°	474	508	581	635	650
62.5°	426	462	537	591	607
65°	383	417	494	547	559
67.5°	331	376	449	500	516
70°	285	328	403	452	455
72.5°	240	283	358	389	385
75°	194	239	310	318	313
77.5°	152	198	249	243	233
80°	110	159	185	168	154
82.5°	71	116	116	95	85
85°	40	65	47	31	22
87.5°	15	18	5	4	3
90°	0	0	0	0	0

(END OF REPORT)