

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: P626487

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

Issue Date: 11/22/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P626487
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 11/22/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: METALUX
 Catalog Number: 14CZSCT3-UNV-MID-4000K
 Description: 1x4, COOL CCT, MID LUMENS
 Light Source: SELECTABLE LUMEN LED 80CRI / 4000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 3899.0 lumens
 Efficiency: N/A
 Efficacy: 147.1 lumens/watt
 Spacing Criteria (0/90/45): 1.2 / 1.29 / 1.37
 Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
 CIE Type: Direct

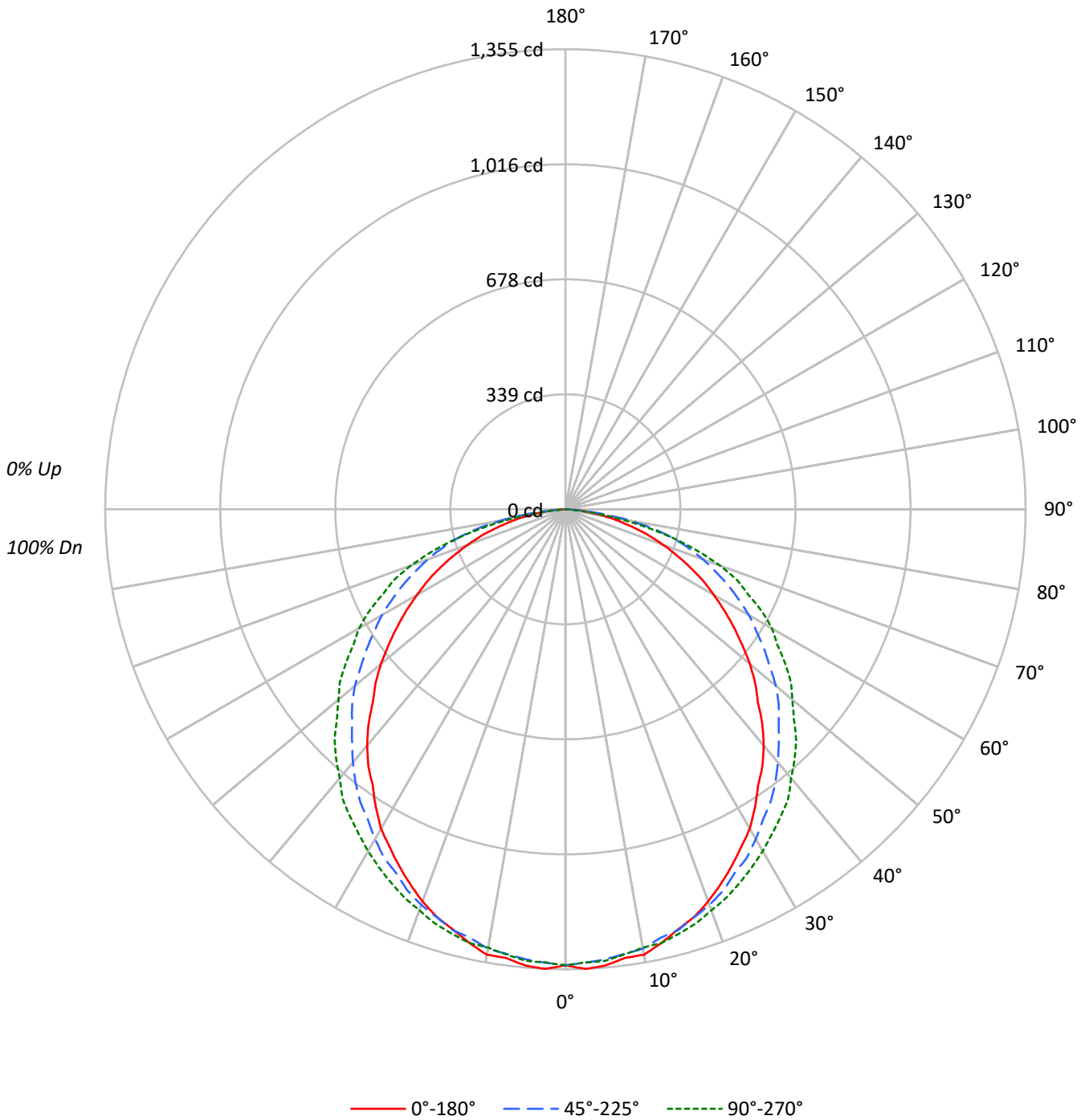
Input Watts (W): 26.5
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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	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	32	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°	3614	3614	3614
5°	3644	3595	3606
10°	3640	3590	3582
15°	3569	3574	3605
20°	3519	3551	3600
25°	3441	3507	3605
30°	3375	3483	3611
35°	3252	3459	3630
40°	3190	3418	3632
45°	3048	3379	3657
50°	2968	3387	3651
55°	2838	3345	3702
60°	2713	3358	3778
65°	2592	3362	3782
70°	2408	3391	3808
75°	2173	3421	3431
80°	1844	3022	2495
85°	1297	1482	618

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	3.3
10°-20°	363.4	9.3
20°-30°	548.0	14.1
30°-40°	658.4	16.9
40°-50°	684.8	17.6
50°-60°	631.3	16.2
60°-70°	509.2	13.1
70°-80°	310.8	8.0
80°-90°	66.0	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°	1038.5	26.6
0°-40°	1696.9	43.5
0°-60°	3013.0	77.3
0°-90°	3899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1343	1343	1343	1343	1343	
5°	1349	1340	1331	1341	1335	128
15°	1281	1282	1283	1302	1294	362
25°	1159	1164	1181	1219	1214	534
35°	990	1015	1053	1096	1105	623
45°	801	835	888	943	961	622
55°	605	640	713	772	789	542
65°	407	447	528	584	594	402
75°	209	255	329	335	330	222
85°	42	68	48	29	20	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1343	1343	1343	1343	1343
2.5°	1355	1350	1337	1346	1336
5°	1349	1340	1331	1341	1335
7.5°	1333	1328	1321	1334	1323
10°	1332	1321	1314	1331	1311
12.5°	1308	1309	1293	1314	1308
15°	1281	1282	1283	1302	1294
17.5°	1259	1254	1260	1281	1279
20°	1229	1230	1240	1263	1257
22.5°	1195	1204	1215	1243	1238
25°	1159	1164	1181	1219	1214
27.5°	1121	1136	1157	1187	1189
30°	1086	1096	1121	1155	1162
32.5°	1039	1060	1083	1127	1133
35°	990	1015	1053	1096	1105
37.5°	953	969	1015	1057	1077
40°	908	926	973	1020	1034
42.5°	858	875	930	982	999
45°	801	835	888	943	961
47.5°	758	790	852	903	912
50°	709	737	809	859	872
52.5°	656	690	758	817	837
55°	605	640	713	772	789
57.5°	555	593	666	727	739
60°	504	542	624	678	702
62.5°	458	495	575	632	653
65°	407	447	528	584	594
67.5°	355	398	478	533	548
70°	306	349	431	478	484
72.5°	259	303	381	411	409
75°	209	255	329	335	330
77.5°	161	211	266	255	242
80°	119	169	195	170	161
82.5°	78	123	120	96	87
85°	42	68	48	29	20
87.5°	16	18	5	4	4
90°	0	0	0	0	0

(END OF REPORT)