

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: P626486

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

Issue Date: 11/22/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P626486
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 11/22/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: METALUX
 Catalog Number: 14CZSCT3-UNV-MID-3500K
 Description: 1x4, MID CCT, MID LUMENS
 Light Source: SELECTABLE LUMEN LED 80CRI / 3500K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 3920.6 lumens
 Efficiency: N/A
 Efficacy: 152.6 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

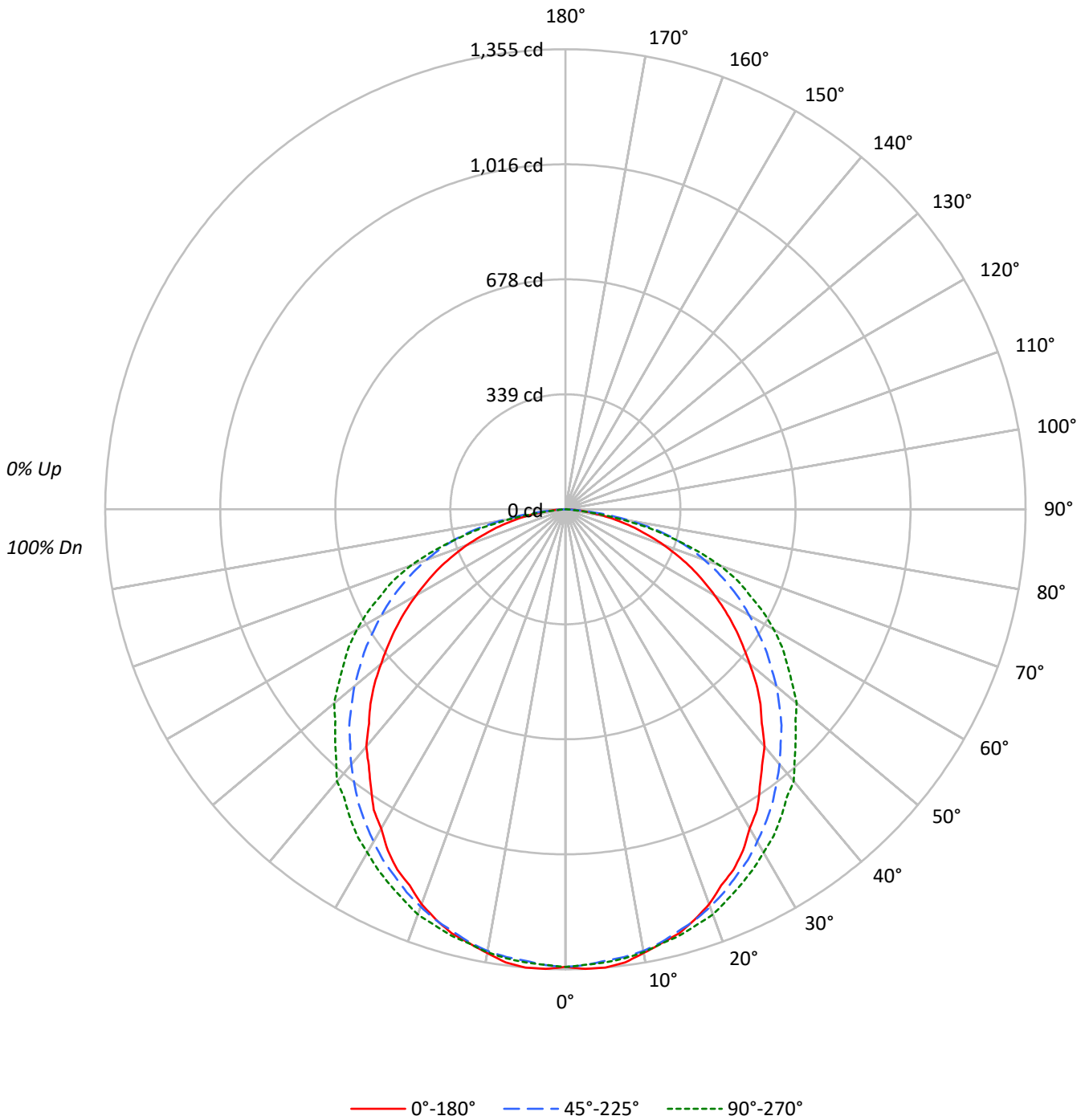
Input Watts (W): 25.7
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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	
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3627	3627	3627
5°	3660	3606	3620
10°	3626	3610	3621
15°	3602	3583	3622
20°	3545	3568	3637
25°	3477	3536	3625
30°	3371	3511	3626
35°	3279	3485	3637
40°	3204	3446	3674
45°	3090	3425	3650
50°	2964	3395	3722
55°	2857	3378	3739
60°	2734	3369	3816
65°	2611	3394	3814
70°	2423	3415	3808
75°	2194	3431	3358
80°	1844	2975	2495
85°	1297	1482	679

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	3.3
10°-20°	365.7	9.3
20°-30°	551.6	14.1
30°-40°	661.4	16.9
40°-50°	688.9	17.6
50°-60°	635.7	16.2
60°-70°	512.1	13.1
70°-80°	311.6	7.9
80°-90°	65.8	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°	1045.1	26.7
0°-40°	1706.5	43.5
0°-60°	3031.1	77.3
0°-90°	3920.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3920.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1355	1347	1335	1353	1340	128
15°	1293	1291	1286	1312	1300	364
25°	1171	1177	1191	1222	1221	538
35°	998	1022	1061	1095	1107	626
45°	812	831	900	957	959	625
55°	609	642	720	776	797	544
65°	410	449	533	586	599	404
75°	211	256	330	335	323	222
85°	42	68	48	27	22	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1348	1348	1348	1348	1348
2.5°	1355	1353	1344	1353	1343
5°	1355	1347	1335	1353	1340
7.5°	1346	1338	1330	1343	1334
10°	1327	1326	1321	1333	1325
12.5°	1309	1314	1306	1321	1310
15°	1293	1291	1286	1312	1300
17.5°	1267	1270	1269	1290	1284
20°	1238	1243	1246	1268	1270
22.5°	1199	1207	1221	1253	1245
25°	1171	1177	1191	1222	1221
27.5°	1133	1145	1164	1198	1196
30°	1085	1098	1130	1164	1167
32.5°	1050	1052	1096	1137	1141
35°	998	1022	1061	1095	1107
37.5°	951	974	1020	1062	1070
40°	912	922	981	1032	1046
42.5°	856	885	938	993	999
45°	812	831	900	957	959
47.5°	763	790	854	905	919
50°	708	740	811	866	889
52.5°	658	695	763	822	841
55°	609	642	720	776	797
57.5°	559	596	671	732	757
60°	508	543	626	683	709
62.5°	458	497	581	634	657
65°	410	449	533	586	599
67.5°	358	401	485	532	549
70°	308	350	434	483	484
72.5°	256	306	386	413	406
75°	211	256	330	335	323
77.5°	161	211	267	252	249
80°	119	168	192	172	161
82.5°	77	122	122	96	83
85°	42	68	48	27	22
87.5°	16	18	5	4	4
90°	0	0	0	0	0

(END OF REPORT)