

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: P626488

Luminaire Tested: **22CZSCT3-UNV-HIGH-3000K**

Issue Date: 11/22/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P626488
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 11/22/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: METALUX
 Catalog Number: 22CZSCT3-UNV-HIGH-3000K
 Description: 2X2, WARM CCT, HIGH LUMENS
 Light Source: SELECTABLE LUMEN LED 80CRI / 3000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 3609.4 lumens
 Efficiency: N/A
 Efficacy: 117.2 lumens/watt
 Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.36
 Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
 CIE Type: Direct

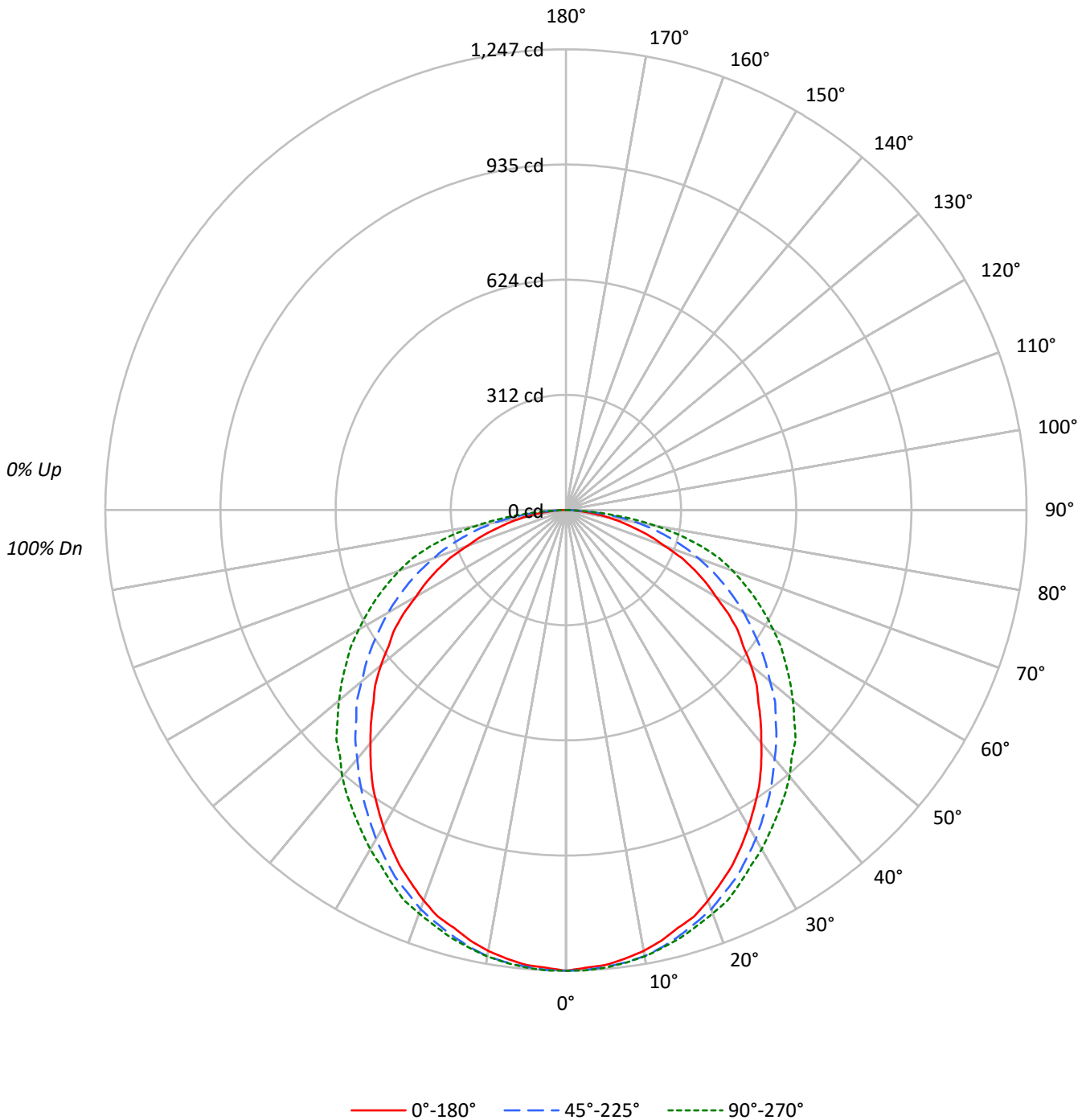
Input Watts (W): 30.8
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	70	70	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	59	59	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	51	51	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	44	44	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	39	39	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	34	34	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	31	31	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3356	3356	3356
5°	3339	3352	3358
10°	3312	3350	3353
15°	3262	3321	3340
20°	3222	3293	3328
25°	3156	3251	3311
30°	3073	3194	3294
35°	2996	3141	3288
40°	2891	3088	3309
45°	2805	3056	3345
50°	2738	3018	3358
55°	2665	3003	3406
60°	2519	2992	3488
65°	2445	2993	3604
70°	2227	2998	3777
75°	2038	3026	3961
80°	1813	2991	3828
85°	1451	2563	3026

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	3.3
10°-20°	335.4	9.3
20°-30°	502.5	13.9
30°-40°	598.4	16.6
40°-50°	621.8	17.2
50°-60°	574.3	15.9
60°-70°	465.4	12.9
70°-80°	304.1	8.4
80°-90°	89.6	2.5
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°	955.8	26.5
0°-40°	1554.2	43.1
0°-60°	2750.3	76.2
0°-90°	3609.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3609.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1236	1242	1241	1246	1243	117
15°	1171	1184	1192	1202	1199	331
25°	1063	1076	1095	1109	1115	489
35°	912	924	956	988	1001	569
45°	737	757	803	854	879	571
55°	568	578	640	704	726	504
65°	384	401	470	537	566	378
75°	196	225	291	357	381	209
85°	47	61	83	94	98	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247	1247	1247	1247	1247
2.5°	1240	1244	1246	1252	1247
5°	1236	1242	1241	1246	1243
7.5°	1225	1227	1235	1238	1236
10°	1212	1216	1226	1229	1227
12.5°	1194	1199	1211	1211	1213
15°	1171	1184	1192	1202	1199
17.5°	1154	1154	1171	1180	1180
20°	1125	1128	1150	1159	1162
22.5°	1094	1103	1121	1135	1144
25°	1063	1076	1095	1109	1115
27.5°	1027	1038	1061	1080	1085
30°	989	1000	1028	1053	1060
32.5°	950	965	991	1023	1030
35°	912	924	956	988	1001
37.5°	868	883	918	957	973
40°	823	840	879	922	942
42.5°	781	801	844	887	905
45°	737	757	803	854	879
47.5°	700	716	768	817	838
50°	654	672	721	780	802
52.5°	605	624	682	743	765
55°	568	578	640	704	726
57.5°	520	537	597	662	691
60°	468	491	556	621	648
62.5°	428	448	513	579	607
65°	384	401	470	537	566
67.5°	339	357	426	492	522
70°	283	311	381	447	480
72.5°	242	268	339	404	436
75°	196	225	291	357	381
77.5°	156	183	246	298	316
80°	117	143	193	233	247
82.5°	80	101	140	168	175
85°	47	61	83	94	98
87.5°	22	23	27	24	22
90°	0	0	0	0	0

(END OF REPORT)