

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: P626489

Luminaire Tested: **22CZSCT3-UNV-HIGH-3500K**

Issue Date: 11/22/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P626489  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Issue Date: 11/22/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: METALUX  
 Catalog Number: 22CZSCT3-UNV-HIGH-3500K  
 Description: 2X2, MID CCT, HIGH LUMENS  
 Light Source: SELECTABLE LUMEN LED 80CRI / 3500K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 4074.1 lumens  
 Efficiency: N/A  
 Efficacy: 137.2 lumens/watt  
 Spacing Criteria (0/90/45): 1.2 / 1.27 / 1.36  
 Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
 CIE Type: Direct

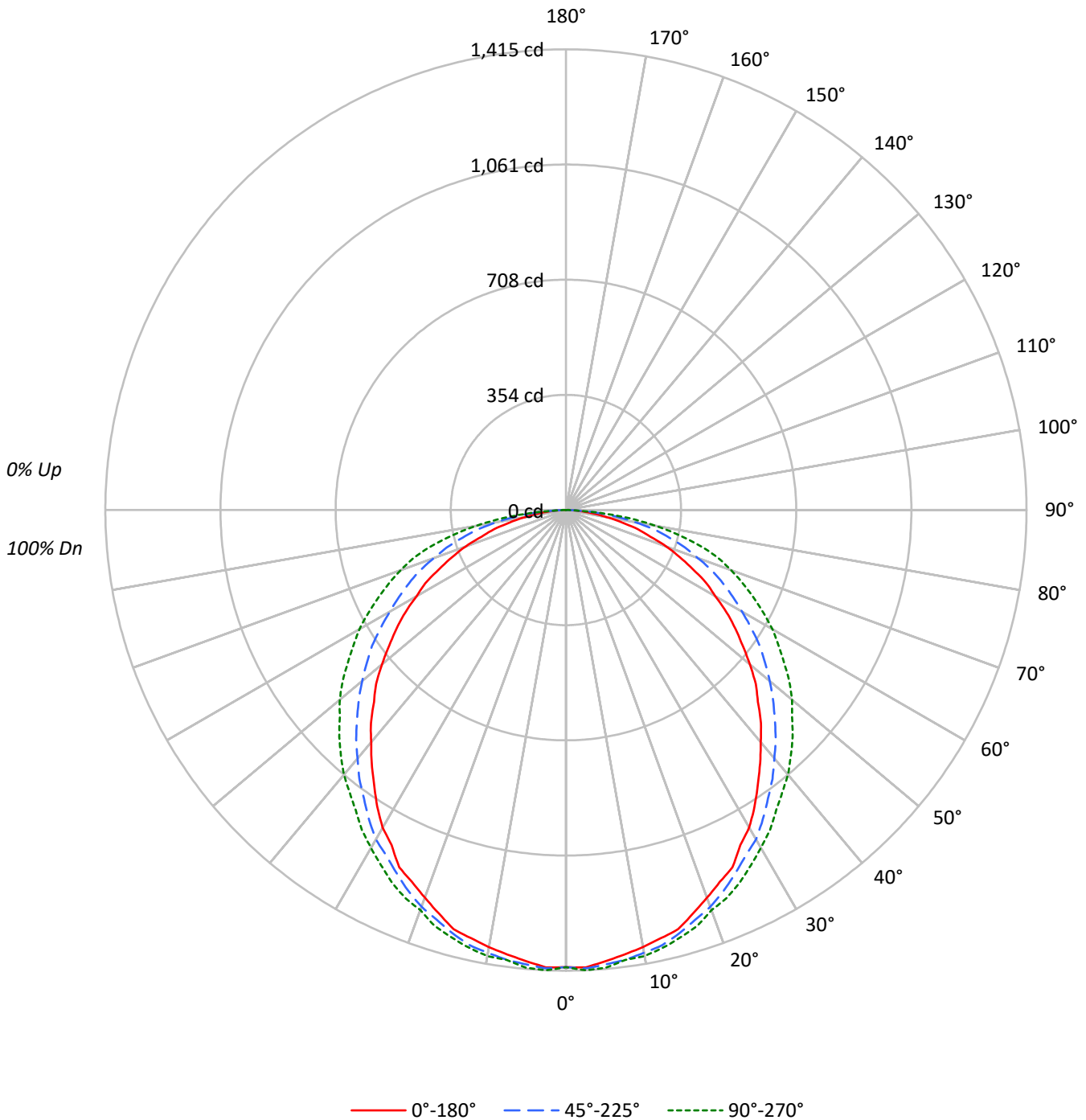
Input Watts (W): 29.7  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3778	3778	3778
5°	3757	3784	3811
10°	3724	3774	3801
15°	3714	3750	3786
20°	3628	3714	3746
25°	3596	3655	3750
30°	3499	3629	3723
35°	3377	3554	3699
40°	3270	3499	3727
45°	3174	3452	3749
50°	3090	3420	3797
55°	2984	3411	3838
60°	2852	3364	3945
65°	2738	3387	4050
70°	2589	3391	4249
75°	2381	3421	4460
80°	2015	3363	4339
85°	1667	2933	3365

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.0	3.3
10°-20°	378.9	9.3
20°-30°	567.3	13.9
30°-40°	675.5	16.6
40°-50°	701.0	17.2
50°-60°	648.1	15.9
60°-70°	525.6	12.9
70°-80°	343.6	8.4
80°-90°	101.1	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
<b>0°-30°</b>	<b>1079.2</b>	<b>26.5</b>
<b>0°-40°</b>	<b>1754.7</b>	<b>43.1</b>
<b>0°-60°</b>	<b>3103.8</b>	<b>76.2</b>
<b>0°-90°</b>	<b>4074.1</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>4074.1</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1391	1401	1401	1402	1411	132
15°	1333	1332	1346	1353	1359	374
25°	1211	1215	1231	1253	1263	554
35°	1028	1038	1082	1114	1126	644
45°	834	857	907	958	985	646
55°	636	657	727	790	818	568
65°	430	456	532	605	636	427
75°	229	254	329	401	429	239
85°	54	68	95	109	109	63
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1404	1404	1404	1404	1404
2.5°	1406	1403	1409	1408	1415
5°	1391	1401	1401	1402	1411
7.5°	1377	1391	1393	1392	1394
10°	1363	1373	1381	1388	1391
12.5°	1347	1355	1369	1364	1377
15°	1333	1332	1346	1353	1359
17.5°	1299	1311	1320	1332	1340
20°	1267	1282	1297	1308	1308
22.5°	1236	1239	1266	1274	1290
25°	1211	1215	1231	1253	1263
27.5°	1160	1170	1196	1221	1230
30°	1126	1130	1168	1187	1198
32.5°	1079	1086	1126	1149	1166
35°	1028	1038	1082	1114	1126
37.5°	980	997	1042	1076	1092
40°	931	949	996	1036	1061
42.5°	887	899	954	1002	1023
45°	834	857	907	958	985
47.5°	791	803	863	919	942
50°	738	760	817	879	907
52.5°	684	706	771	837	865
55°	636	657	727	790	818
57.5°	585	603	675	745	774
60°	530	556	625	699	733
62.5°	487	504	578	654	684
65°	430	456	532	605	636
67.5°	378	404	485	553	588
70°	329	355	431	506	540
72.5°	272	306	384	454	491
75°	229	254	329	401	429
77.5°	177	205	281	333	356
80°	130	162	217	261	280
82.5°	89	116	156	189	200
85°	54	68	95	109	109
87.5°	25	26	30	26	23
90°	0	0	0	0	0

(END OF REPORT)