

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: P626490

Luminaire Tested: **22CZSCT3-UNV-HIGH-4000K**

Issue Date: 11/22/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P626490  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Issue Date: 11/22/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: METALUX  
 Catalog Number: 22CZSCT3-UNV-HIGH-4000K  
 Description: 2X2, COOL CCT, HIGH LUMENS  
 Light Source: SELECTABLE LUMEN LED 80CRI / 4000K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 3833.2 lumens  
 Efficiency: N/A  
 Efficacy: 122.9 lumens/watt  
 Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
 Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
 CIE Type: Direct

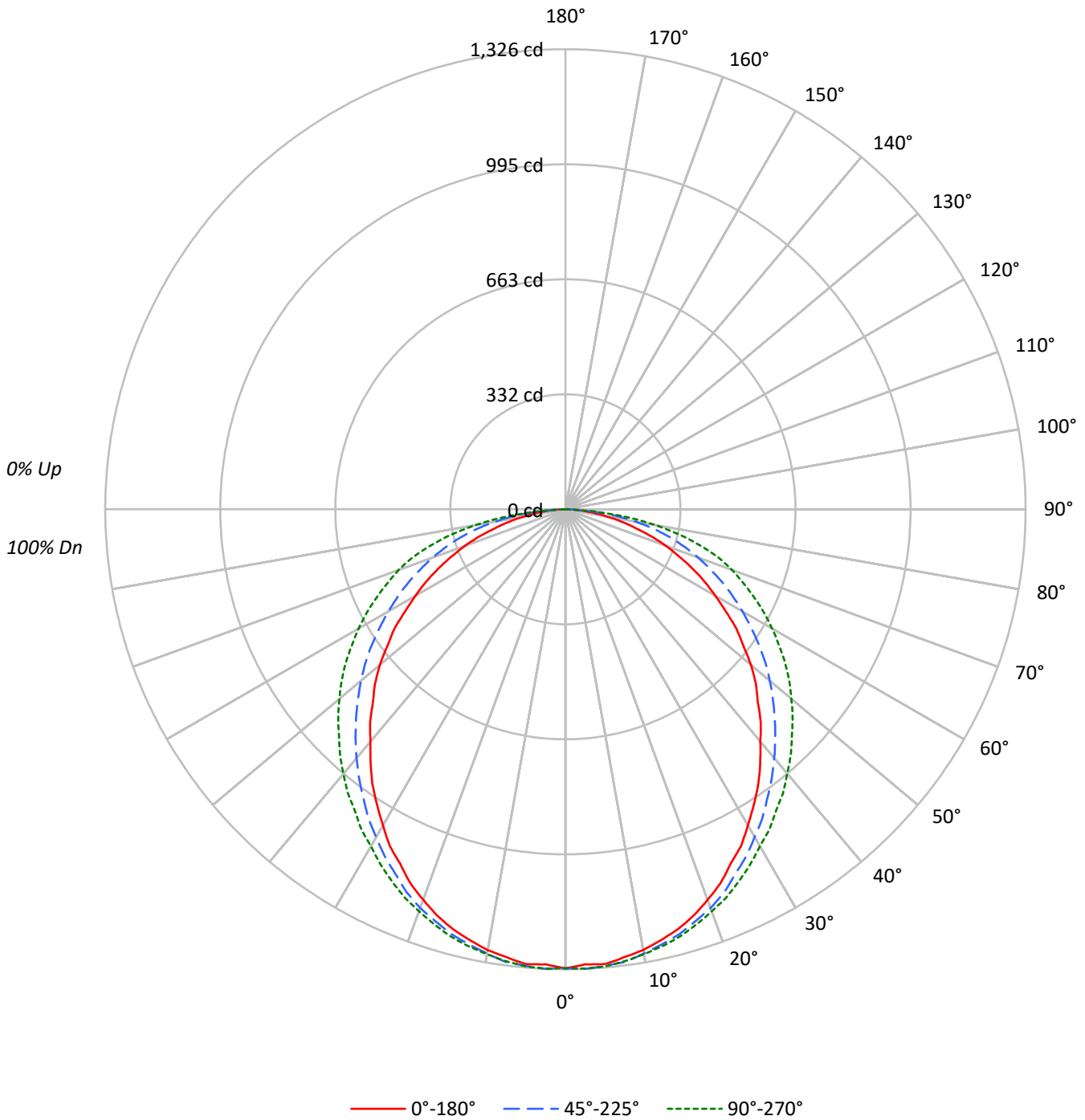
Input Watts (W): 31.2  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



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°	3560	3560	3560
5°	3555	3568	3571
10°	3525	3552	3558
15°	3491	3533	3552
20°	3431	3502	3531
25°	3346	3441	3513
30°	3269	3390	3483
35°	3183	3334	3479
40°	3070	3288	3495
45°	2984	3246	3513
50°	2922	3219	3558
55°	2824	3195	3627
60°	2686	3170	3703
65°	2572	3177	3820
70°	2431	3202	4020
75°	2183	3244	4180
80°	1906	3192	4091
85°	1606	2717	3118

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.3	3.3
10°-20°	356.6	9.3
20°-30°	533.6	13.9
30°-40°	635.3	16.6
40°-50°	659.5	17.2
50°-60°	609.5	15.9
60°-70°	494.4	12.9
70°-80°	323.3	8.4
80°-90°	95.6	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°	1015.5	26.5
0°-40°	1650.8	43.1
0°-60°	2919.9	76.2
0°-90°	3833.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3833.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1316	1314	1321	1324	1322	125
15°	1253	1254	1268	1274	1275	353
25°	1127	1141	1159	1179	1183	520
35°	969	979	1015	1050	1059	605
45°	784	805	853	904	923	607
55°	602	615	681	745	773	535
65°	404	428	499	570	600	400
75°	210	240	312	378	402	224
85°	52	65	88	100	101	60
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1323	1323	1323	1323	1323
2.5°	1313	1318	1326	1327	1325
5°	1316	1314	1321	1324	1322
7.5°	1302	1306	1316	1317	1314
10°	1290	1292	1300	1305	1302
12.5°	1272	1274	1285	1290	1290
15°	1253	1254	1268	1274	1275
17.5°	1228	1230	1245	1255	1255
20°	1198	1201	1223	1232	1233
22.5°	1167	1171	1195	1204	1211
25°	1127	1141	1159	1179	1183
27.5°	1095	1100	1128	1147	1154
30°	1052	1064	1091	1115	1121
32.5°	1010	1023	1056	1085	1094
35°	969	979	1015	1050	1059
37.5°	922	937	977	1016	1030
40°	874	892	936	978	995
42.5°	833	851	895	943	961
45°	784	805	853	904	923
47.5°	744	756	811	867	888
50°	698	711	769	826	850
52.5°	646	663	726	787	813
55°	602	615	681	745	773
57.5°	548	568	634	703	730
60°	499	521	589	657	688
62.5°	453	477	544	615	645
65°	404	428	499	570	600
67.5°	354	381	452	524	554
70°	309	332	407	476	511
72.5°	259	284	360	429	462
75°	210	240	312	378	402
77.5°	166	194	260	314	336
80°	123	153	206	249	264
82.5°	87	109	151	180	190
85°	52	65	88	100	101
87.5°	20	24	28	25	21
90°	0	0	0	0	0

(END OF REPORT)