

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: P626500

Luminaire Tested: **24CZSCT3-UNV-LOW-3000K**

Issue Date: 11/22/2022

Tested By:

Approved By:



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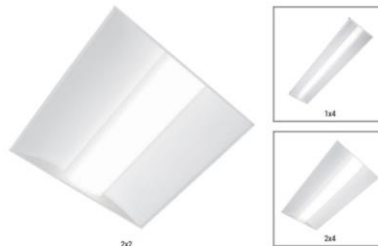
Test Information

Test Method: LM-79-08
 Report Number: P626500
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 11/22/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: METALUX
 Catalog Number: 24CZSCT3-UNV-LOW-3000K
 Description: 2X4, WARM CCT, LOW LUMENS
 Light Source: SELECTABLE LUMEN LED 80CRI / 3000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 3500.1 lumens
 Efficiency: N/A
 Efficacy: 141.7 lumens/watt
 Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
 Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
 CIE Type: Direct

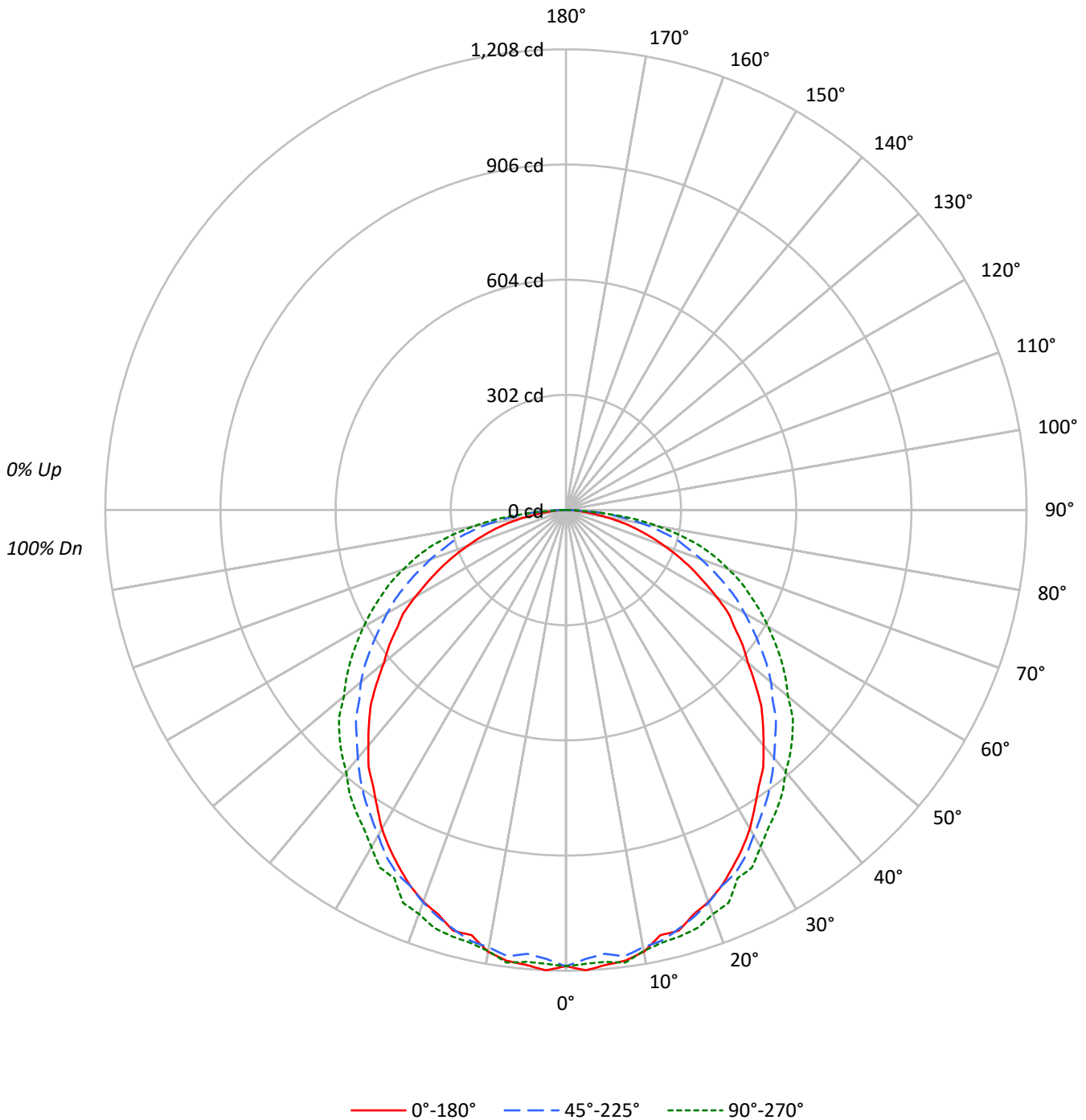
Input Watts (W): 24.7
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1609	1609	1609
5°	1617	1578	1606
10°	1607	1590	1604
15°	1591	1585	1612
20°	1565	1568	1614
25°	1535	1560	1581
30°	1499	1530	1585
35°	1449	1513	1580
40°	1416	1491	1574
45°	1378	1482	1598
50°	1304	1469	1591
55°	1269	1457	1619
60°	1230	1456	1650
65°	1162	1468	1703
70°	1082	1487	1782
75°	993	1565	1897
80°	821	1581	1906
85°	618	1497	1559

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	3.2
10°-20°	322.8	9.2
20°-30°	485.6	13.9
30°-40°	578.1	16.5
40°-50°	600.8	17.2
50°-60°	553.5	15.8
60°-70°	450.1	12.9
70°-80°	300.1	8.6
80°-90°	95.9	2.7
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°	921.5	26.3
0°-40°	1499.6	42.8
0°-60°	2653.9	75.8
0°-90°	3500.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3500.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1197	1193	1168	1198	1189	114
15°	1142	1141	1138	1153	1157	320
25°	1034	1039	1051	1076	1065	476
35°	882	898	921	951	962	554
45°	724	737	779	820	840	555
55°	541	568	621	677	690	486
65°	365	392	461	514	535	361
75°	191	225	301	347	365	202
85°	40	71	97	104	101	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1196	1196	1196	1196	1196
2.5°	1208	1199	1178	1199	1191
5°	1197	1193	1168	1198	1189
7.5°	1192	1180	1180	1189	1197
10°	1176	1177	1164	1182	1174
12.5°	1142	1164	1157	1165	1162
15°	1142	1141	1138	1153	1157
17.5°	1112	1120	1118	1134	1149
20°	1093	1092	1095	1112	1127
22.5°	1067	1076	1067	1091	1115
25°	1034	1039	1051	1076	1065
27.5°	1001	1016	1022	1042	1057
30°	965	970	985	1020	1020
32.5°	922	937	952	984	988
35°	882	898	921	951	962
37.5°	850	865	886	917	933
40°	806	819	849	889	896
42.5°	765	785	812	860	870
45°	724	737	779	820	840
47.5°	673	699	735	781	807
50°	623	650	702	746	760
52.5°	585	608	663	708	726
55°	541	568	621	677	690
57.5°	506	521	580	632	651
60°	457	476	541	596	613
62.5°	408	433	504	557	575
65°	365	392	461	514	535
67.5°	319	350	418	478	498
70°	275	308	378	433	453
72.5°	232	266	336	396	411
75°	191	225	301	347	365
77.5°	151	183	252	293	308
80°	106	146	204	234	246
82.5°	71	112	152	172	181
85°	40	71	97	104	101
87.5°	17	31	38	33	30
90°	0	0	0	0	0

(END OF REPORT)