

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: P626502

Luminaire Tested: **24CZSCT3-UNV-LOW-4000K**

Issue Date: 11/22/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P626502
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 11/22/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: METALUX
 Catalog Number: 24CZSCT3-UNV-LOW-4000K
 Description: 2X4, COOL CCT, LOW LUMENS
 Light Source: SELECTABLE LUMEN LED 80CRI / 4000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 3727.7 lumens
 Efficiency: N/A
 Efficacy: 150.9 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

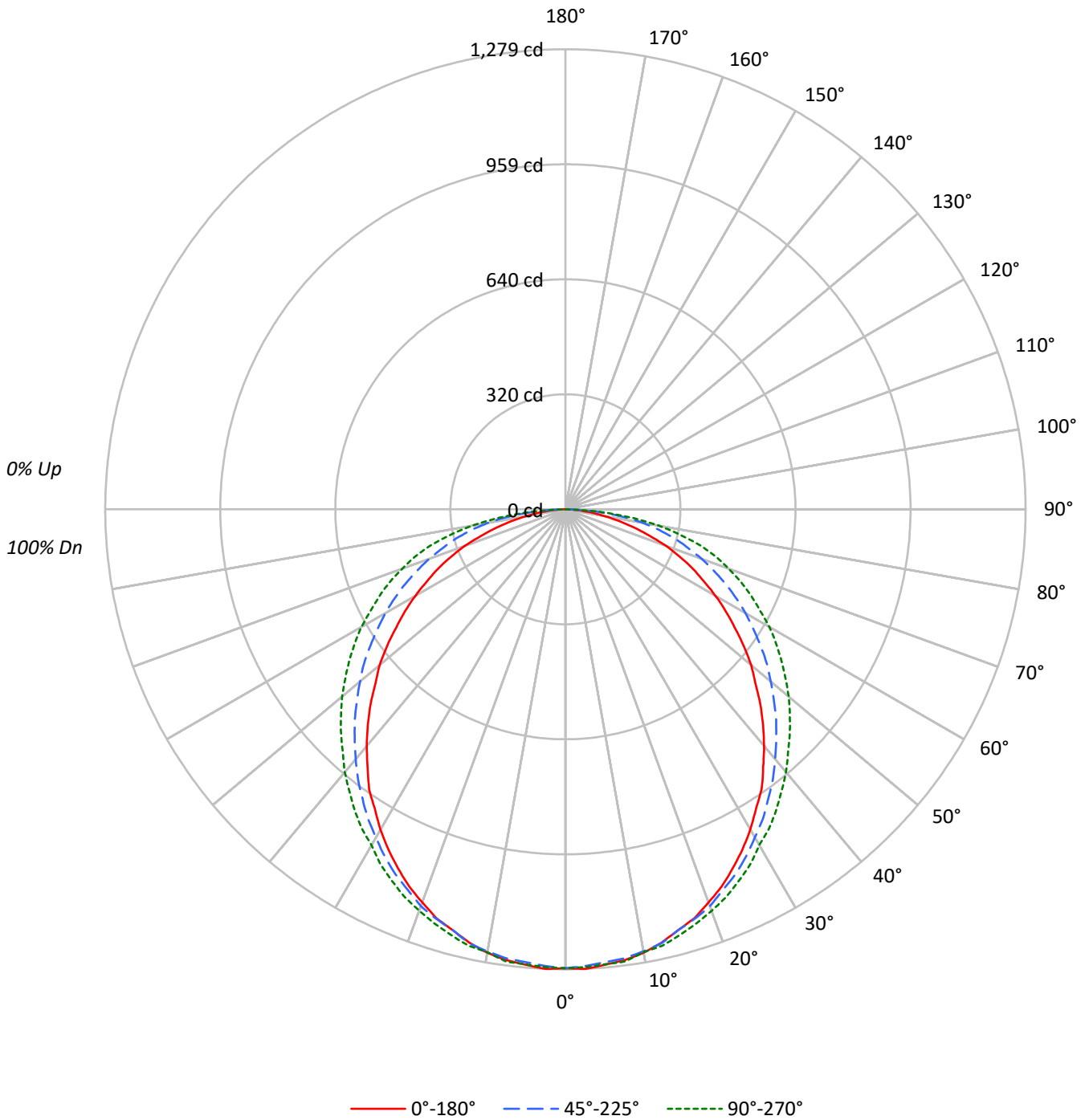
Input Watts (W): 24.7
 Input Voltage (V): NR
 Input Current (A_{in}): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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	102	102	102	102	102	102	102	102	102	100																	
	1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	84	84	84	84	84	84	84	84	84	84	82																	
	2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	70	70	70	70	70	70	70	70	70	70	68																	
	3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	59	59	59	59	59	59	59	59	59	59	57																	
	4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	50	50	50	50	50	50	50	50	50	50	48																	
	5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	44	44	44	44	44	44	44	44	44	44	42																	
	6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	38	38	38	38	38	38	38	38	38	38	36																	
	7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	34	34	34	34	34	34	34	34	34	34	32																	
	8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	30	30	30	30	30	30	30	30	30	30	29																	
	9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	27	27	27	27	27	27	27	27	27	27	26																	
	10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	25	25	25	25	25	25	25	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1717	1717	1717
5°	1717	1707	1715
10°	1711	1705	1708
15°	1687	1687	1708
20°	1665	1681	1701
25°	1635	1661	1692
30°	1597	1636	1675
35°	1562	1615	1677
40°	1509	1593	1676
45°	1458	1576	1678
50°	1411	1559	1696
55°	1349	1553	1719
60°	1297	1555	1763
65°	1245	1563	1815
70°	1168	1585	1896
75°	1035	1638	2017
80°	876	1697	2046
85°	664	1575	1791

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	3.2
10°-20°	344.1	9.2
20°-30°	516.3	13.9
30°-40°	616.4	16.5
40°-50°	638.3	17.1
50°-60°	589.6	15.8
60°-70°	480.0	12.9
70°-80°	319.1	8.6
80°-90°	103.1	2.8
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°	981.2	26.3
0°-40°	1597.6	42.9
0°-60°	2825.5	75.8
0°-90°	3727.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3727.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1276	1276	1276	1276	1276	
5°	1271	1273	1264	1274	1270	121
15°	1211	1215	1211	1229	1226	342
25°	1101	1107	1119	1136	1140	507
35°	951	960	983	1013	1021	592
45°	766	788	828	869	882	591
55°	575	603	662	715	733	516
65°	391	420	491	550	570	386
75°	199	239	315	371	388	212
85°	43	75	102	113	116	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1276	1276	1276	1276	1276
2.5°	1279	1280	1271	1281	1274
5°	1271	1273	1264	1274	1270
7.5°	1264	1268	1259	1268	1268
10°	1252	1252	1248	1259	1250
12.5°	1234	1236	1236	1244	1243
15°	1211	1215	1211	1229	1226
17.5°	1192	1195	1194	1210	1208
20°	1163	1167	1174	1188	1188
22.5°	1135	1142	1145	1163	1167
25°	1101	1107	1119	1136	1140
27.5°	1066	1073	1088	1107	1113
30°	1028	1038	1053	1078	1078
32.5°	986	999	1021	1044	1053
35°	951	960	983	1013	1021
37.5°	903	924	947	977	987
40°	859	874	907	942	954
42.5°	813	831	867	908	916
45°	766	788	828	869	882
47.5°	716	740	786	832	846
50°	674	697	745	797	810
52.5°	625	650	706	756	771
55°	575	603	662	715	733
57.5°	529	557	619	674	694
60°	482	511	578	633	655
62.5°	434	466	535	592	610
65°	391	420	491	550	570
67.5°	344	374	446	506	528
70°	297	329	403	462	482
72.5°	245	283	357	419	439
75°	199	239	315	371	388
77.5°	155	196	268	314	326
80°	113	157	219	251	264
82.5°	77	118	162	185	193
85°	43	75	102	113	116
87.5°	18	33	41	39	34
90°	0	0	0	0	0

(END OF REPORT)