

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: P626503

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

Issue Date: 11/22/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P626503  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Issue Date: 11/22/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: METALUX  
 Catalog Number: 24CZSCT3-UNV-MID-3000K  
 Description: 2X4, WARM CCT, MID LUMENS  
 Light Source: SELECTABLE LUMEN LED 80CRI / 3000K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 4766.1 lumens  
 Efficiency: N/A  
 Efficacy: 135.8 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

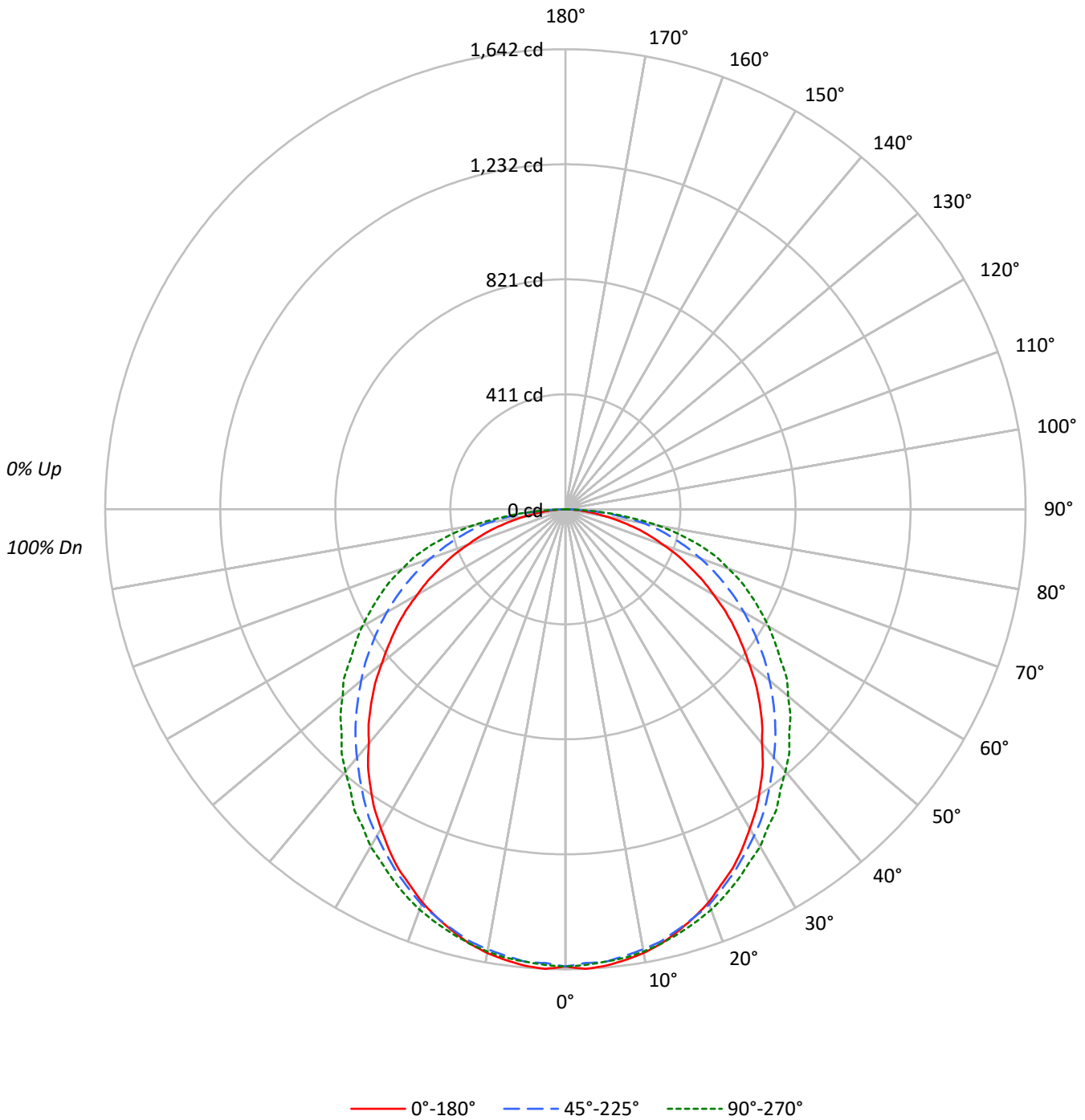
Input Watts (W): 35.1  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	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	68
3	89	78	70	63	86	76	69	62	73	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	56	51	61	55	50	50	50	50	48
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	48	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	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	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	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	28	28	28	28	26
10	52	39	31	25	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°	2196	2196	2196
5°	2210	2191	2189
10°	2197	2179	2190
15°	2170	2163	2183
20°	2138	2149	2178
25°	2098	2119	2165
30°	2045	2091	2160
35°	1991	2063	2155
40°	1916	2032	2145
45°	1865	2011	2148
50°	1790	1991	2171
55°	1727	1978	2198
60°	1644	1981	2255
65°	1563	1990	2330
70°	1463	2014	2431
75°	1357	2074	2578
80°	1131	2170	2611
85°	834	2022	2254

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.5	3.2
10°-20°	440.7	9.2
20°-30°	661.2	13.9
30°-40°	788.3	16.5
40°-50°	816.5	17.1
50°-60°	753.2	15.8
60°-70°	612.6	12.9
70°-80°	408.3	8.6
80°-90°	130.9	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°	1256.4	26.4
0°-40°	2044.7	42.9
0°-60°	3614.4	75.8
0°-90°	4766.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4766.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1636	1626	1622	1632	1621	155
15°	1558	1556	1553	1569	1567	439
25°	1413	1420	1427	1460	1458	650
35°	1212	1226	1256	1297	1312	757
45°	980	1009	1057	1112	1129	755
55°	736	770	843	917	937	657
65°	491	536	625	702	732	488
75°	261	307	399	475	496	273
85°	54	93	131	143	146	67
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1632	1632	1632	1632	1632
2.5°	1642	1631	1621	1636	1628
5°	1636	1626	1622	1632	1621
7.5°	1623	1618	1608	1623	1615
10°	1608	1600	1595	1609	1603
12.5°	1587	1585	1579	1596	1587
15°	1558	1556	1553	1569	1567
17.5°	1527	1527	1527	1555	1545
20°	1493	1499	1501	1524	1521
22.5°	1451	1460	1464	1498	1491
25°	1413	1420	1427	1460	1458
27.5°	1366	1374	1386	1421	1421
30°	1316	1331	1346	1380	1390
32.5°	1268	1281	1305	1338	1345
35°	1212	1226	1256	1297	1312
37.5°	1157	1176	1206	1253	1260
40°	1091	1117	1157	1206	1221
42.5°	1039	1063	1109	1159	1182
45°	980	1009	1057	1112	1129
47.5°	921	949	1004	1064	1089
50°	855	890	951	1013	1037
52.5°	794	831	900	965	997
55°	736	770	843	917	937
57.5°	676	713	790	863	887
60°	611	651	736	809	838
62.5°	554	593	681	758	784
65°	491	536	625	702	732
67.5°	436	478	570	647	680
70°	372	418	512	591	618
72.5°	316	364	457	533	565
75°	261	307	399	475	496
77.5°	200	250	344	402	419
80°	146	199	280	323	337
82.5°	97	147	208	239	241
85°	54	93	131	143	146
87.5°	22	42	50	47	46
90°	0	0	0	0	0

(END OF REPORT)