

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: P626499

Luminaire Tested: **24CZSCT3-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: P626499  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Issue Date: 11/22/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: METALUX  
 Catalog Number: 24CZSCT3-UNV-HIGH-4000K  
 Description: 2X4, COOL CCT, HIGH LUMENS  
 Light Source: SELECTABLE LUMEN LED 80CRI / 4000K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 6340.7 lumens  
 Efficiency: N/A  
 Efficacy: 135.5 lumens/watt  
 Spacing Criteria (0/90/45): 1.2 / 1.27 / 1.36  
 Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
 CIE Type: Direct

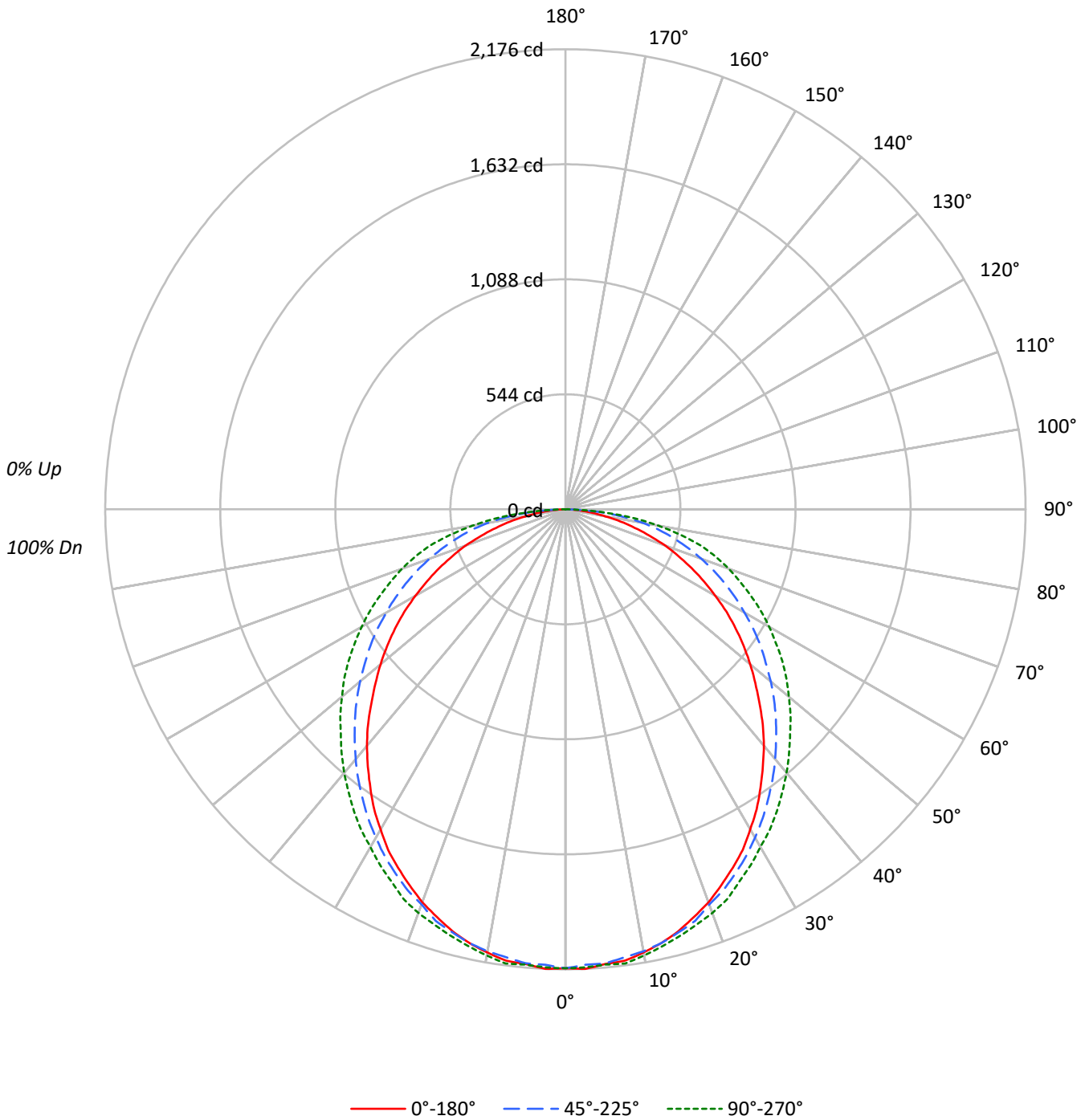
Input Watts (W): 46.8  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



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	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	96	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°	2921	2921	2921
5°	2916	2912	2920
10°	2909	2901	2928
15°	2878	2885	2911
20°	2832	2848	2909
25°	2778	2822	2886
30°	2716	2786	2865
35°	2641	2746	2863
40°	2564	2710	2858
45°	2468	2677	2858
50°	2388	2652	2887
55°	2306	2641	2937
60°	2204	2632	2995
65°	2095	2655	3079
70°	1975	2687	3234
75°	1768	2766	3441
80°	1480	2875	3464
85°	1096	2732	3103

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.5	3.2
10°-20°	585.8	9.2
20°-30°	879.1	13.9
30°-40°	1047.9	16.5
40°-50°	1086.0	17.1
50°-60°	1002.3	15.8
60°-70°	815.1	12.9
70°-80°	543.0	8.6
80°-90°	176.0	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°	1670.4	26.3
0°-40°	2718.3	42.9
0°-60°	4806.5	75.8
0°-90°	6340.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6340.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2171	2171	2171	2171	2171	
5°	2159	2164	2156	2167	2162	206
15°	2066	2070	2071	2091	2090	582
25°	1871	1887	1901	1938	1944	862
35°	1608	1629	1672	1723	1743	1006
45°	1297	1340	1407	1480	1502	1003
55°	983	1026	1126	1217	1252	878
65°	658	715	834	933	967	651
75°	340	407	532	633	662	361
85°	71	127	177	190	201	88
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2171	2171	2171	2171	2171
2.5°	2176	2171	2157	2178	2169
5°	2159	2164	2156	2167	2162
7.5°	2154	2151	2137	2160	2167
10°	2129	2129	2123	2130	2143
12.5°	2101	2104	2101	2119	2117
15°	2066	2070	2071	2091	2090
17.5°	2022	2031	2041	2054	2060
20°	1978	1988	1989	2020	2032
22.5°	1925	1938	1950	1983	1997
25°	1871	1887	1901	1938	1944
27.5°	1816	1833	1850	1887	1898
30°	1748	1766	1793	1828	1844
32.5°	1683	1702	1735	1777	1798
35°	1608	1629	1672	1723	1743
37.5°	1534	1562	1609	1653	1685
40°	1460	1490	1543	1603	1627
42.5°	1382	1412	1475	1543	1566
45°	1297	1340	1407	1480	1502
47.5°	1218	1264	1339	1413	1444
50°	1141	1186	1267	1347	1379
52.5°	1063	1102	1194	1283	1318
55°	983	1026	1126	1217	1252
57.5°	903	947	1054	1146	1181
60°	819	870	978	1074	1113
62.5°	738	792	907	1006	1043
65°	658	715	834	933	967
67.5°	577	638	759	859	893
70°	502	560	683	785	822
72.5°	417	481	607	707	745
75°	340	407	532	633	662
77.5°	267	335	457	539	556
80°	191	266	371	433	447
82.5°	129	199	277	316	333
85°	71	127	177	190	201
87.5°	29	56	69	67	69
90°	0	0	0	0	0

(END OF REPORT)