

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: P626498

Luminaire Tested: **24CZSCT3-UNV-HIGH-3500K**

Issue Date: 11/22/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P626498
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 11/22/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: METALUX
 Catalog Number: 24CZSCT3-UNV-HIGH-3500K
 Description: 2X4, MID CCT, HIGH LUMENS
 Light Source: SELECTABLE LUMEN LED 80CRI / 3500K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 6578.9 lumens
 Efficiency: N/A
 Efficacy: 148.2 lumens/watt
 Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.36
 Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
 CIE Type: Direct

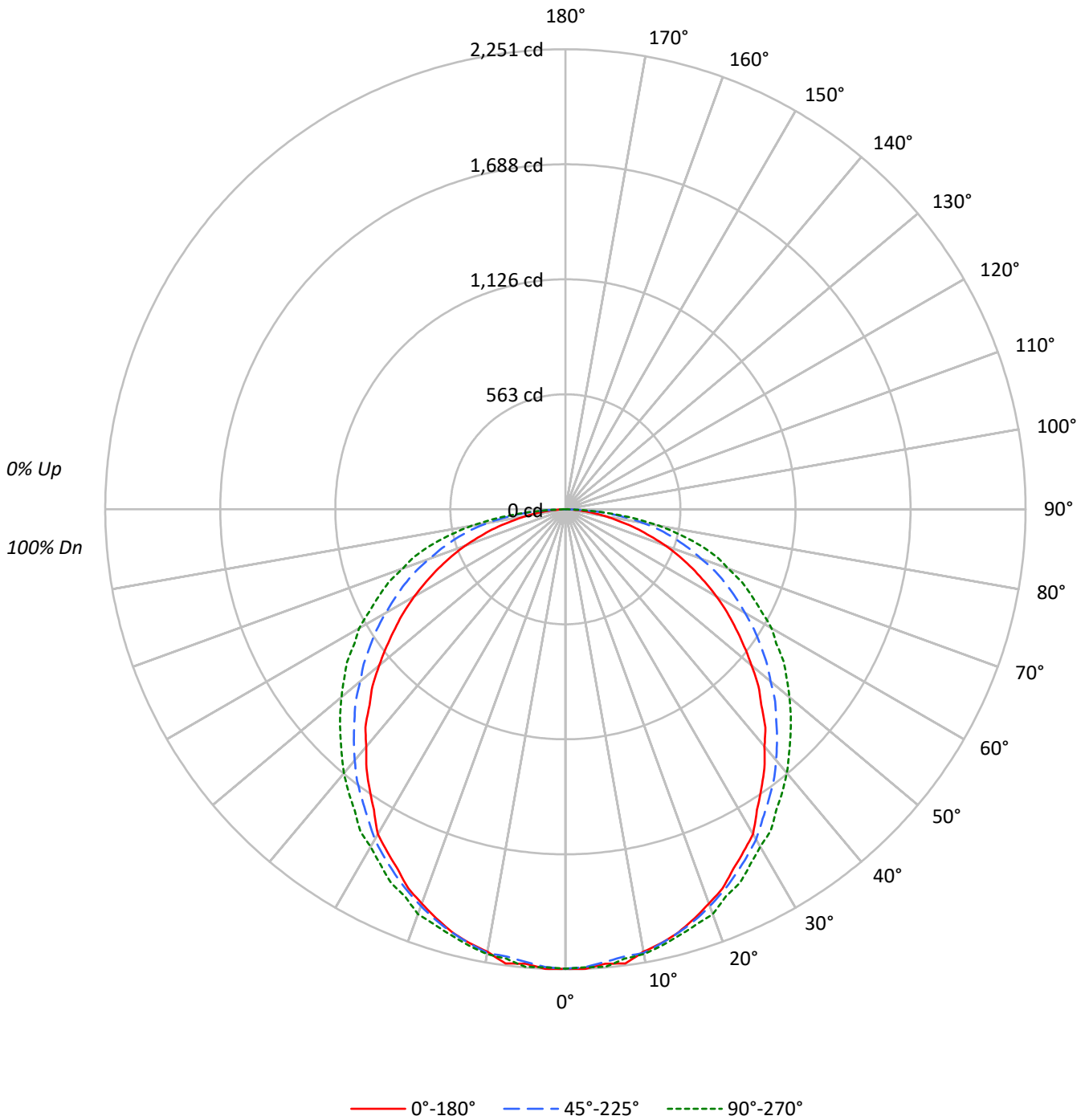
Input Watts (W): 44.4
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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	96	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	60	55	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	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	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	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	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3025	3025	3025
5°	3015	3002	3035
10°	3003	3011	3019
15°	2984	2986	3006
20°	2940	2958	3018
25°	2883	2926	2996
30°	2851	2898	2961
35°	2743	2848	2953
40°	2661	2816	2960
45°	2578	2776	2963
50°	2489	2742	2993
55°	2388	2735	3059
60°	2295	2731	3135
65°	2181	2763	3206
70°	2054	2781	3328
75°	1856	2880	3551
80°	1573	2999	3603
85°	1142	2841	3196

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.6	3.2
10°-20°	606.8	9.2
20°-30°	911.6	13.9
30°-40°	1087.1	16.5
40°-50°	1126.7	17.1
50°-60°	1041.0	15.8
60°-70°	846.8	12.9
70°-80°	563.5	8.6
80°-90°	182.9	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°	1730.9	26.3
0°-40°	2818.0	42.8
0°-60°	4985.7	75.8
0°-90°	6578.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6578.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2248	2248	2248	2248	2248	
5°	2232	2247	2223	2239	2247	213
15°	2142	2141	2144	2172	2158	603
25°	1942	1952	1971	2016	2018	897
35°	1670	1683	1734	1791	1798	1047
45°	1355	1391	1459	1537	1557	1049
55°	1018	1063	1166	1268	1304	912
65°	685	735	868	972	1007	679
75°	357	421	554	655	683	376
85°	74	137	184	203	207	93
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2248	2248	2248	2248	2248
2.5°	2251	2251	2242	2256	2243
5°	2232	2247	2223	2239	2247
7.5°	2241	2223	2207	2229	2218
10°	2198	2209	2204	2214	2210
12.5°	2174	2175	2175	2205	2186
15°	2142	2141	2144	2172	2158
17.5°	2099	2101	2108	2126	2130
20°	2053	2056	2066	2101	2108
22.5°	2008	2010	2021	2053	2050
25°	1942	1952	1971	2016	2018
27.5°	1888	1895	1919	1956	1959
30°	1835	1831	1865	1898	1906
32.5°	1744	1751	1796	1846	1868
35°	1670	1683	1734	1791	1798
37.5°	1599	1620	1674	1730	1743
40°	1515	1536	1603	1663	1685
42.5°	1448	1464	1532	1598	1620
45°	1355	1391	1459	1537	1557
47.5°	1281	1299	1392	1466	1495
50°	1189	1224	1310	1403	1430
52.5°	1102	1138	1243	1337	1365
55°	1018	1063	1166	1268	1304
57.5°	938	986	1094	1195	1223
60°	853	900	1015	1120	1165
62.5°	768	824	940	1044	1080
65°	685	735	868	972	1007
67.5°	604	658	792	894	937
70°	522	578	707	816	846
72.5°	434	498	632	738	778
75°	357	421	554	655	683
77.5°	271	346	477	559	575
80°	203	276	387	445	465
82.5°	135	207	287	328	337
85°	74	137	184	203	207
87.5°	30	57	72	70	64
90°	0	0	0	0	0

(END OF REPORT)