

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P995639

Luminaire Tested: 24D3X-LP-WD-60-L940.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 12/21/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-WD-60-L940.ies
Description: 2x4 D3X-LP AT 6000LM 4000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

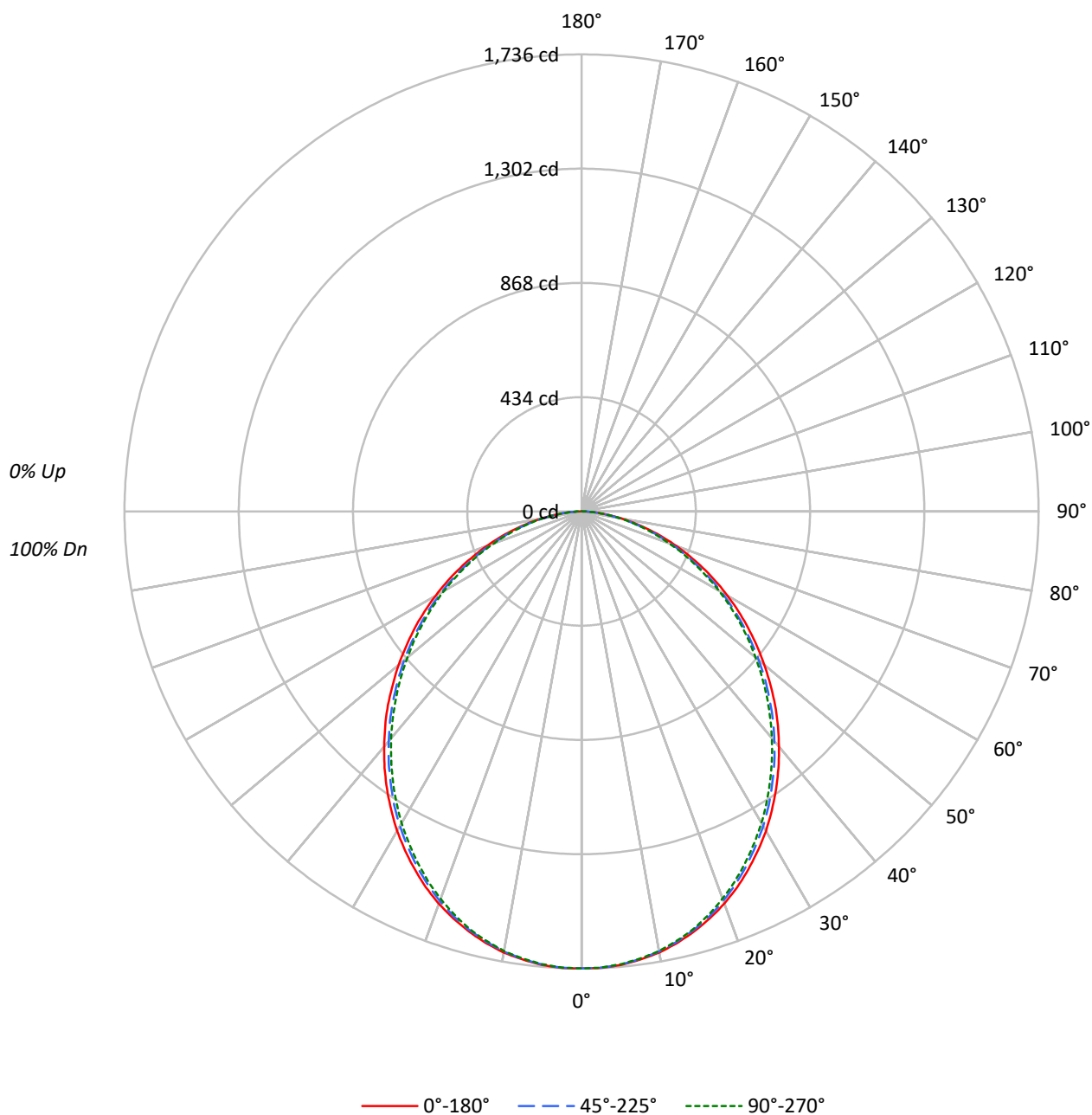
Lumens per Lamp: N/A
Luminaire Lumens: 4376.7 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.9
Input Voltage (V): 120
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: 24 FT

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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29		
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2336	2336	2336
5°	2336	2333	2331
10°	2324	2319	2316
15°	2301	2293	2287
20°	2270	2255	2242
25°	2227	2202	2185
30°	2177	2144	2124
35°	2115	2075	2052
40°	2048	2001	1976
45°	1978	1922	1894
50°	1897	1839	1806
55°	1814	1751	1718
60°	1721	1652	1621
65°	1620	1544	1512
70°	1507	1426	1390
75°	1367	1290	1269
80°	1185	1121	1127
85°	977	965	902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1978 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.0	3.7
10°-20°	464.0	10.6
20°-30°	683.8	15.6
30°-40°	791.6	18.1
40°-50°	781.5	17.9
50°-60°	669.4	15.3
60°-70°	483.9	11.1
70°-80°	266.8	6.1
80°-90°	71.8	1.6
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°	1311.7	30.0
0°-40°	2103.3	48.1
0°-60°	3554.1	81.2
0°-90°	4376.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4376.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1736	1736	1736	1736	1736	
5°	1729	1728	1728	1726	1726	164
15°	1652	1650	1646	1644	1642	466
25°	1500	1496	1484	1476	1472	691
35°	1288	1280	1263	1252	1249	805
45°	1040	1026	1010	1000	995	801
55°	773	759	746	736	732	691
65°	509	497	485	478	475	504
75°	263	255	248	247	244	279
85°	63	63	62	58	58	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1735.8	1735.8	1735.8	1735.8	1735.8
2.5°	1735.8	1735.8	1734.2	1734.2	1734.2
5°	1729.2	1728.4	1727.6	1725.9	1725.9
7.5°	1716.9	1716.9	1714.4	1714.4	1712.8
10°	1701.3	1699.6	1697.2	1697.2	1695.5
12.5°	1679.1	1677.4	1674.2	1673.3	1670.9
15°	1652.0	1650.3	1646.2	1643.8	1642.1
17.5°	1620.7	1618.3	1613.3	1609.2	1605.9
20°	1585.4	1582.1	1574.7	1569.8	1565.7
22.5°	1545.1	1541.8	1531.2	1525.4	1521.3
25°	1499.9	1495.8	1483.5	1476.1	1472.0
27.5°	1451.4	1446.5	1432.5	1424.3	1420.2
30°	1401.3	1393.9	1379.9	1370.1	1366.8
32.5°	1345.4	1338.0	1324.0	1312.5	1309.2
35°	1287.9	1279.7	1263.2	1252.5	1249.3
37.5°	1228.7	1218.0	1203.2	1192.5	1187.6
40°	1166.2	1155.6	1139.1	1127.6	1125.1
42.5°	1103.8	1090.6	1076.7	1065.2	1060.2
45°	1039.7	1025.7	1010.1	1000.2	995.3
47.5°	972.3	959.1	945.2	933.7	929.5
50°	906.5	892.6	878.6	867.9	863.0
52.5°	839.1	825.2	812.0	803.0	798.0
55°	773.4	758.6	746.3	735.6	732.3
57.5°	706.8	693.7	679.7	669.8	667.4
60°	639.4	627.9	613.9	604.9	602.4
62.5°	574.5	563.0	549.8	540.8	536.7
65°	508.7	497.2	484.9	477.5	475.0
67.5°	444.6	434.0	423.3	415.9	414.2
70°	383.0	372.3	362.4	355.9	353.4
72.5°	321.4	314.0	304.1	300.0	297.5
75°	263.0	254.8	248.2	247.4	244.1
77.5°	206.3	205.5	194.8	193.1	193.1
80°	152.9	150.4	144.7	143.0	145.5
82.5°	105.2	103.6	100.3	99.4	98.6
85°	63.3	63.3	62.5	58.4	58.4
87.5°	28.8	27.9	27.1	27.9	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)