

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: P995636

Luminaire Tested: 24D3X-LP-WD-60-L927.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995636
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-L927.ies
Description: 2x4 D3X-LP AT 6000LM 2700K 90CRI
Light Source: -
Ballast/Driver: -

Summary

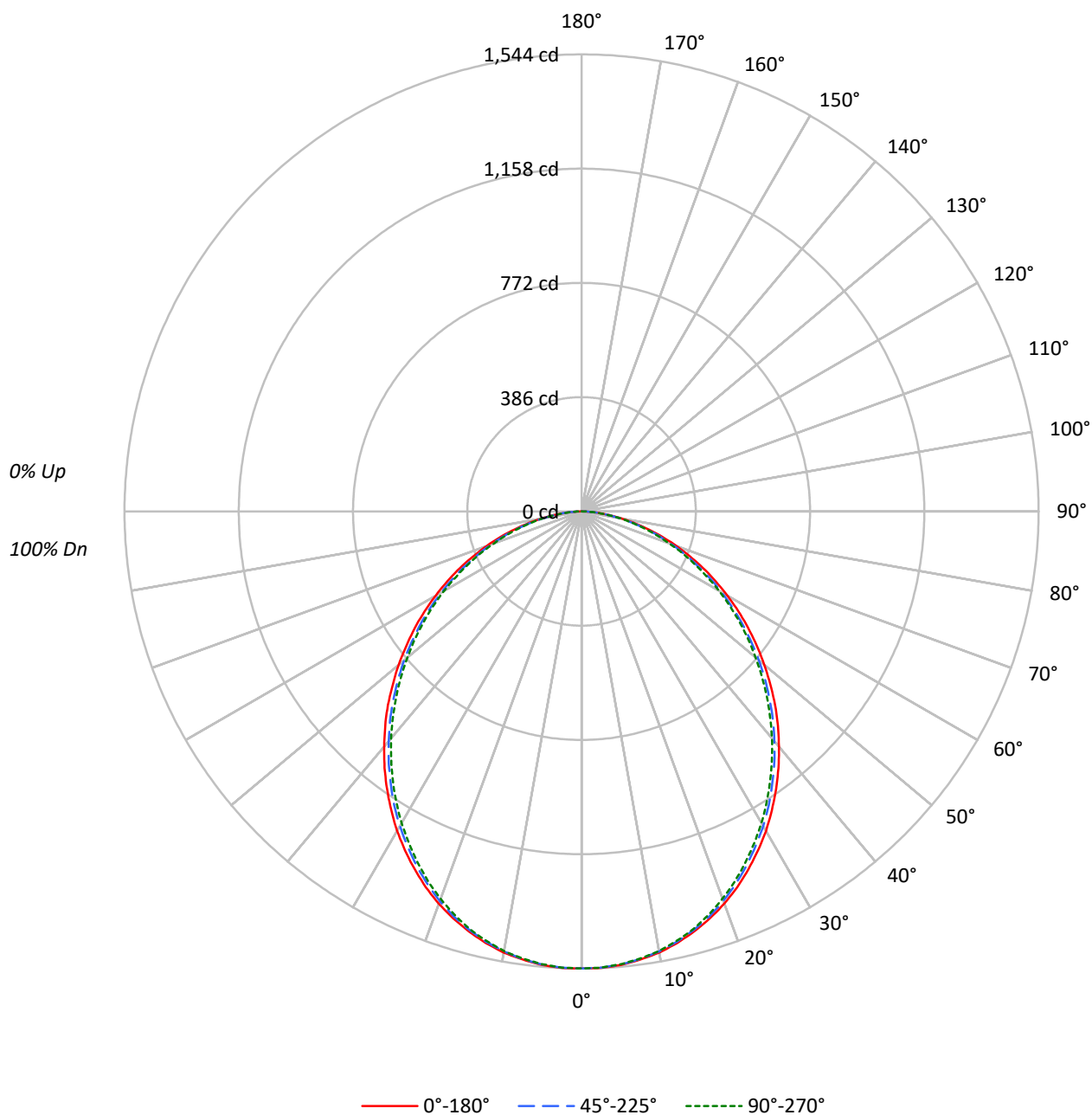
Lumens per Lamp: N/A
Luminaire Lumens: 3892.6 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2077	2077	2077
5°	2077	2075	2073
10°	2067	2062	2060
15°	2047	2039	2034
20°	2019	2005	1994
25°	1980	1959	1944
30°	1936	1907	1889
35°	1881	1845	1825
40°	1822	1779	1758
45°	1760	1709	1684
50°	1688	1636	1607
55°	1613	1557	1528
60°	1530	1469	1442
65°	1441	1373	1345
70°	1340	1268	1236
75°	1216	1148	1129
80°	1054	996	1003
85°	869	858	801

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1760 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	3.7
10°-20°	412.7	10.6
20°-30°	608.1	15.6
30°-40°	704.0	18.1
40°-50°	695.0	17.9
50°-60°	595.3	15.3
60°-70°	430.4	11.1
70°-80°	237.3	6.1
80°-90°	63.9	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°	1166.6	30.0
0°-40°	1870.6	48.1
0°-60°	3161.0	81.2
0°-90°	3892.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3892.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1538	1537	1536	1535	1535	146
15°	1469	1468	1464	1462	1460	414
25°	1334	1330	1319	1313	1309	614
35°	1145	1138	1124	1114	1111	716
45°	925	912	898	890	885	713
55°	688	675	664	654	651	615
65°	452	442	431	425	422	449
75°	234	227	221	220	217	248
85°	56	56	56	52	52	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1543.8	1543.8	1543.8	1543.8	1543.8
2.5°	1543.8	1543.8	1542.3	1542.3	1542.3
5°	1538.0	1537.2	1536.5	1535.0	1535.0
7.5°	1527.0	1527.0	1524.8	1524.8	1523.3
10°	1513.1	1511.6	1509.4	1509.4	1508.0
12.5°	1493.4	1491.9	1489.0	1488.2	1486.1
15°	1469.2	1467.8	1464.1	1461.9	1460.5
17.5°	1441.5	1439.3	1434.9	1431.2	1428.3
20°	1410.0	1407.1	1400.5	1396.1	1392.5
22.5°	1374.2	1371.3	1361.8	1356.7	1353.0
25°	1334.0	1330.4	1319.4	1312.8	1309.2
27.5°	1290.9	1286.5	1274.1	1266.8	1263.1
30°	1246.3	1239.7	1227.3	1218.5	1215.6
32.5°	1196.6	1190.0	1177.6	1167.4	1164.4
35°	1145.4	1138.1	1123.5	1114.0	1111.1
37.5°	1092.8	1083.3	1070.1	1060.6	1056.2
40°	1037.2	1027.7	1013.1	1002.9	1000.7
42.5°	981.7	970.0	957.6	947.3	942.9
45°	924.7	912.2	898.4	889.6	885.2
47.5°	864.7	853.0	840.6	830.4	826.7
50°	806.3	793.8	781.4	771.9	767.5
52.5°	746.3	733.9	722.2	714.2	709.8
55°	687.8	674.7	663.7	654.2	651.3
57.5°	628.6	616.9	604.5	595.7	593.5
60°	568.7	558.5	546.0	538.0	535.8
62.5°	510.9	500.7	489.0	481.0	477.3
65°	452.5	442.2	431.3	424.7	422.5
67.5°	395.5	385.9	376.4	369.9	368.4
70°	340.6	331.1	322.4	316.5	314.3
72.5°	285.8	279.2	270.5	266.8	264.6
75°	233.9	226.6	220.8	220.0	217.1
77.5°	183.5	182.7	173.2	171.8	171.8
80°	136.0	133.8	128.6	127.2	129.4
82.5°	93.6	92.1	89.2	88.4	87.7
85°	56.3	56.3	55.6	51.9	51.9
87.5°	25.6	24.9	24.1	24.9	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)