

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: P995630

Luminaire Tested: 24D3X-LP-WD-55-L940.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995630
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-55-L940.ies
Description: 2x4 D3X-LP AT 5500LM 4000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

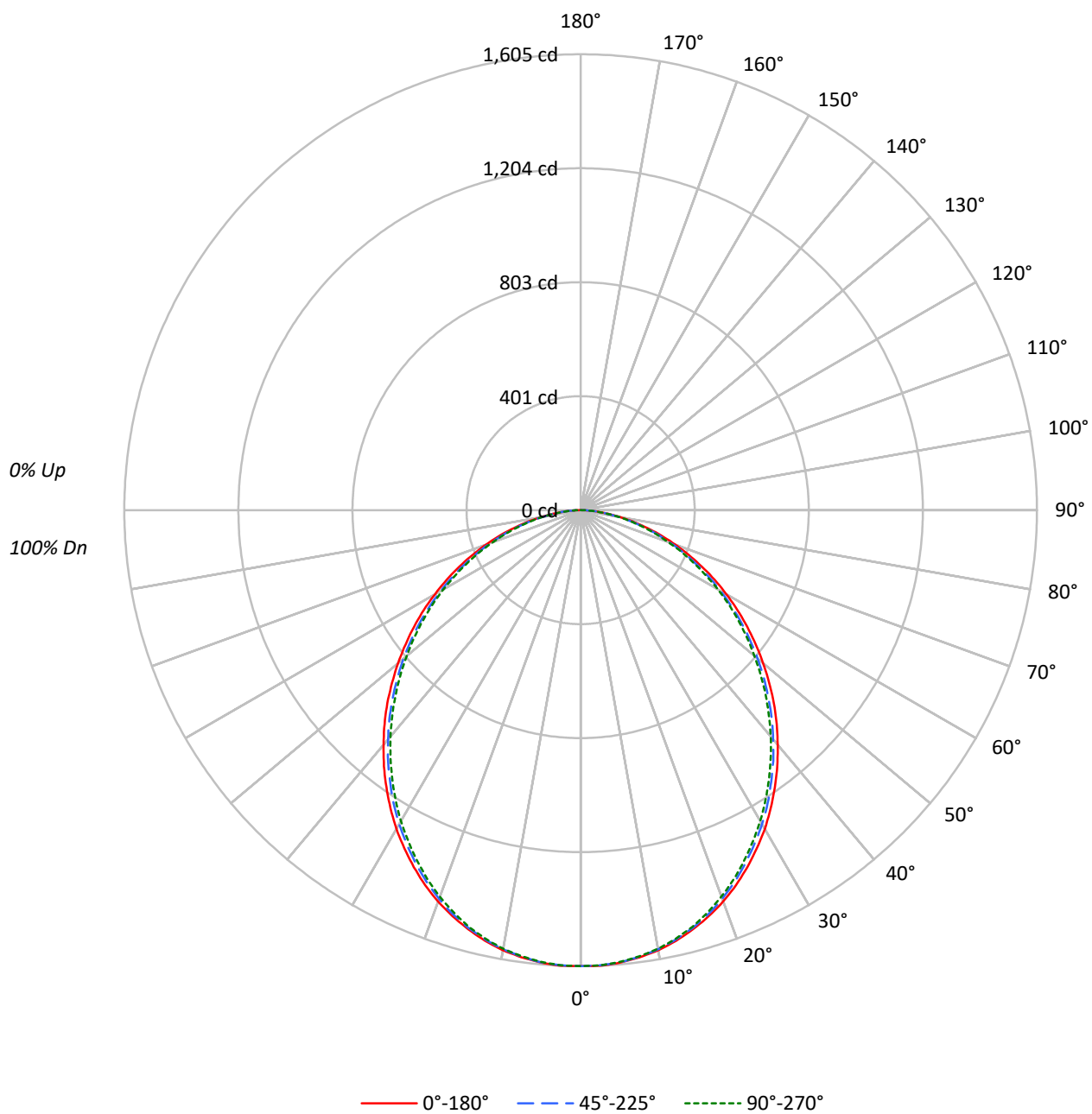
Lumens per Lamp: N/A
Luminaire Lumens: 4047.3 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.2
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

TEST NUMBER: P995630

CATALOG NUMBER: 24D3X-LP-WD-55-L940.ies

Luminous Intensity Polar Plot



TEST NUMBER: P995630

CATALOG NUMBER: 24D3X-LP-WD-55-L940.ies

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2160	2160	2160
5°	2160	2158	2156
10°	2149	2144	2142
15°	2128	2120	2115
20°	2099	2085	2073
25°	2059	2037	2021
30°	2013	1983	1964
35°	1956	1919	1897
40°	1894	1850	1828
45°	1829	1777	1751
50°	1755	1701	1670
55°	1678	1619	1589
60°	1591	1528	1499
65°	1498	1428	1399
70°	1393	1319	1286
75°	1264	1193	1173
80°	1096	1037	1042
85°	903	892	834

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1829 cd/sqm

TEST NUMBER: P995630

CATALOG NUMBER: 24D3X-LP-WD-55-L940.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	3.7
10°-20°	429.1	10.6
20°-30°	632.3	15.6
30°-40°	732.0	18.1
40°-50°	722.7	17.9
50°-60°	619.0	15.3
60°-70°	447.5	11.1
70°-80°	246.7	6.1
80°-90°	66.4	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°	1213.0	30.0
0°-40°	1945.0	48.1
0°-60°	3286.6	81.2
0°-90°	4047.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4047.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1605	1605	1605	1605	1605	
5°	1599	1598	1598	1596	1596	152
15°	1528	1526	1522	1520	1518	431
25°	1387	1383	1372	1365	1361	639
35°	1191	1183	1168	1158	1155	745
45°	961	948	934	925	920	741
55°	715	702	690	680	677	639
65°	470	460	448	442	439	466
75°	243	236	230	229	226	258
85°	58	58	58	54	54	69
90°	0	0	0	0	0	

TEST NUMBER: P995630

CATALOG NUMBER: 24D3X-LP-WD-55-L940.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1605.2	1605.2	1605.2	1605.2	1605.2
2.5°	1605.2	1605.2	1603.6	1603.6	1603.6
5°	1599.1	1598.3	1597.6	1596.0	1596.0
7.5°	1587.7	1587.7	1585.4	1585.4	1583.9
10°	1573.2	1571.7	1569.4	1569.4	1567.9
12.5°	1552.7	1551.2	1548.2	1547.4	1545.1
15°	1527.6	1526.1	1522.3	1520.0	1518.5
17.5°	1498.8	1496.5	1491.9	1488.1	1485.1
20°	1466.1	1463.0	1456.2	1451.6	1447.8
22.5°	1428.8	1425.8	1415.9	1410.6	1406.8
25°	1387.0	1383.2	1371.8	1365.0	1361.2
27.5°	1342.2	1337.6	1324.7	1317.1	1313.3
30°	1295.8	1289.0	1276.1	1267.0	1263.9
32.5°	1244.2	1237.3	1224.4	1213.8	1210.7
35°	1191.0	1183.4	1168.1	1158.3	1155.2
37.5°	1136.2	1126.3	1112.7	1102.8	1098.2
40°	1078.5	1068.6	1053.4	1042.7	1040.5
42.5°	1020.7	1008.5	995.6	985.0	980.4
45°	961.4	948.5	934.1	924.9	920.4
47.5°	899.1	886.9	874.0	863.4	859.6
50°	838.3	825.4	812.5	802.6	798.0
52.5°	776.0	763.1	750.9	742.5	738.0
55°	715.2	701.5	690.1	680.2	677.2
57.5°	653.6	641.5	628.5	619.4	617.1
60°	591.3	580.7	567.7	559.4	557.1
62.5°	531.3	520.6	508.5	500.1	496.3
65°	470.5	459.8	448.4	441.6	439.3
67.5°	411.2	401.3	391.4	384.6	383.0
70°	354.2	344.3	335.2	329.1	326.8
72.5°	297.2	290.3	281.2	277.4	275.1
75°	243.2	235.6	229.5	228.8	225.7
77.5°	190.8	190.0	180.1	178.6	178.6
80°	141.4	139.1	133.8	132.2	134.5
82.5°	97.3	95.8	92.7	92.0	91.2
85°	58.5	58.5	57.8	54.0	54.0
87.5°	26.6	25.8	25.1	25.8	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)