

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: P601169

Luminaire Tested: 24D3X-LP-45-L940

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-45-L940
Description: 2x4 D3X-LP AT 4500LM 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

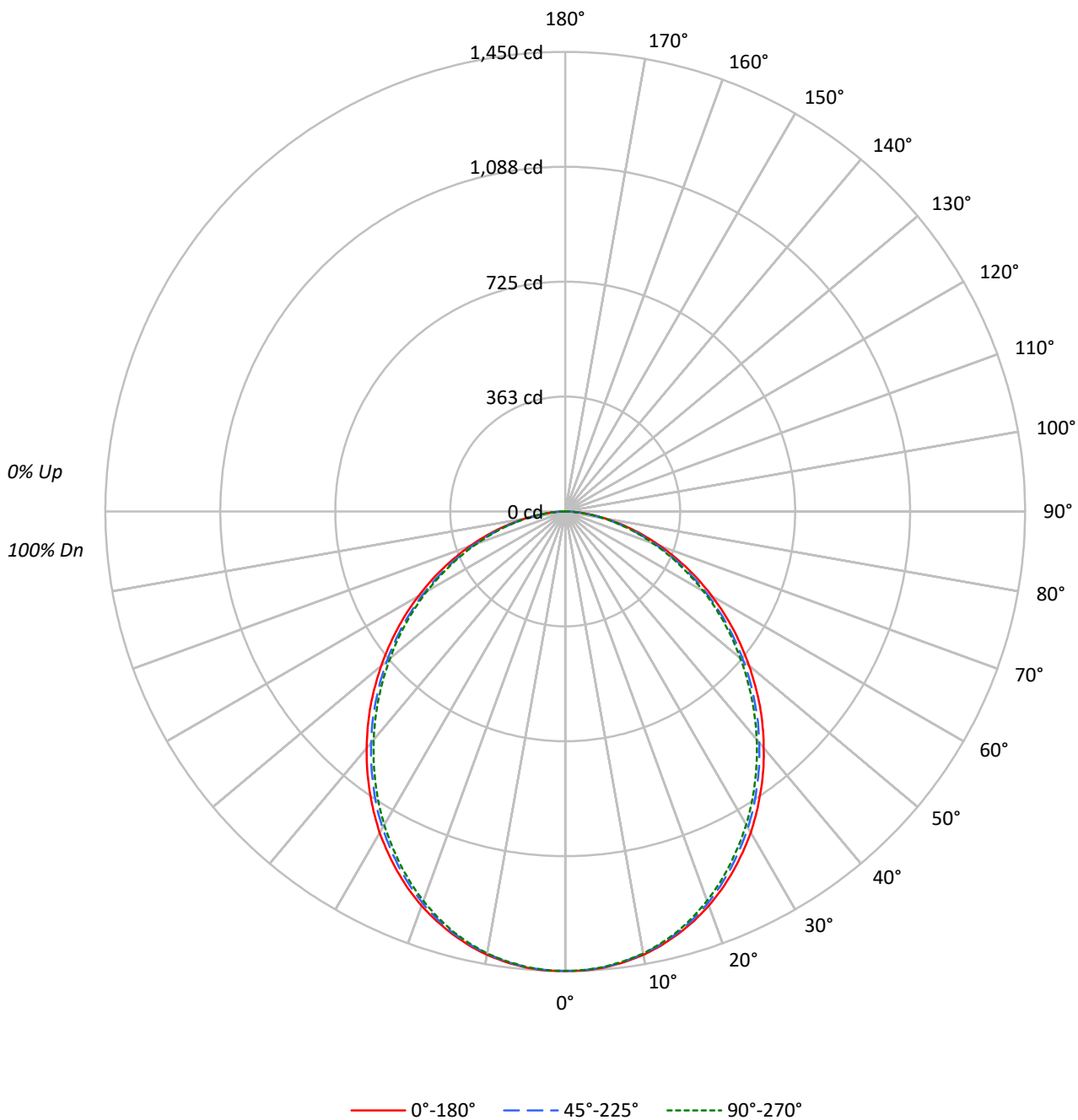
Lumens per Lamp: N/A
Luminaire Lumens: 3655.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1950	1950	1950
5°	1950	1949	1947
10°	1941	1936	1934
15°	1922	1915	1910
20°	1896	1883	1872
25°	1860	1839	1825
30°	1818	1790	1773
35°	1767	1733	1714
40°	1711	1671	1650
45°	1652	1605	1582
50°	1585	1536	1509
55°	1515	1462	1434
60°	1437	1380	1354
65°	1353	1289	1263
70°	1258	1191	1161
75°	1142	1078	1059
80°	989	936	941
85°	815	806	752

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1652 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	3.7
10°-20°	387.5	10.6
20°-30°	571.0	15.6
30°-40°	661.0	18.1
40°-50°	652.6	17.9
50°-60°	559.0	15.3
60°-70°	404.2	11.1
70°-80°	222.8	6.1
80°-90°	60.0	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°	1095.4	30.0
0°-40°	1756.5	48.1
0°-60°	2968.1	81.2
0°-90°	3655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1444	1443	1443	1441	1441	137
15°	1380	1378	1375	1373	1371	389
25°	1253	1249	1239	1233	1229	577
35°	1076	1069	1055	1046	1043	672
45°	868	857	844	835	831	669
55°	646	634	623	614	612	577
65°	425	415	405	399	397	421
75°	220	213	207	207	204	233
85°	53	53	52	49	49	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1449.6	1449.6	1449.6	1449.6	1449.6
2.5°	1449.6	1449.6	1448.2	1448.2	1448.2
5°	1444.1	1443.4	1442.7	1441.3	1441.3
7.5°	1433.8	1433.8	1431.7	1431.7	1430.4
10°	1420.7	1419.4	1417.3	1417.3	1415.9
12.5°	1402.2	1400.8	1398.1	1397.4	1395.4
15°	1379.6	1378.2	1374.8	1372.7	1371.3
17.5°	1353.5	1351.4	1347.3	1343.9	1341.1
20°	1324.0	1321.2	1315.0	1310.9	1307.5
22.5°	1290.3	1287.6	1278.7	1273.9	1270.4
25°	1252.6	1249.2	1238.9	1232.7	1229.3
27.5°	1212.1	1208.0	1196.3	1189.4	1186.0
30°	1170.2	1164.1	1152.4	1144.1	1141.4
32.5°	1123.6	1117.4	1105.7	1096.1	1093.4
35°	1075.5	1068.6	1054.9	1046.0	1043.3
37.5°	1026.1	1017.2	1004.8	995.9	991.8
40°	973.9	965.0	951.3	941.7	939.6
42.5°	921.8	910.8	899.1	889.5	885.4
45°	868.2	856.6	843.5	835.3	831.2
47.5°	812.0	801.0	789.3	779.7	776.3
50°	757.0	745.4	733.7	724.8	720.7
52.5°	700.8	689.1	678.1	670.6	666.4
55°	645.9	633.5	623.2	614.3	611.5
57.5°	590.3	579.3	567.6	559.4	557.3
60°	534.0	524.4	512.7	505.2	503.1
62.5°	479.8	470.2	459.2	451.6	448.2
65°	424.9	415.2	404.9	398.8	396.7
67.5°	371.3	362.4	353.5	347.3	345.9
70°	319.8	310.9	302.7	297.2	295.1
72.5°	268.4	262.2	254.0	250.5	248.5
75°	219.6	212.8	207.3	206.6	203.8
77.5°	172.3	171.6	162.7	161.3	161.3
80°	127.7	125.6	120.8	119.4	121.5
82.5°	87.9	86.5	83.7	83.0	82.4
85°	52.8	52.8	52.2	48.7	48.7
87.5°	24.0	23.3	22.6	23.3	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)