

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: P995607

Luminaire Tested: 24D3X-LP-WD-45-L840.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995607
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-45-L840.ies
Description: 2x4 D3X-LP AT 4500LM 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

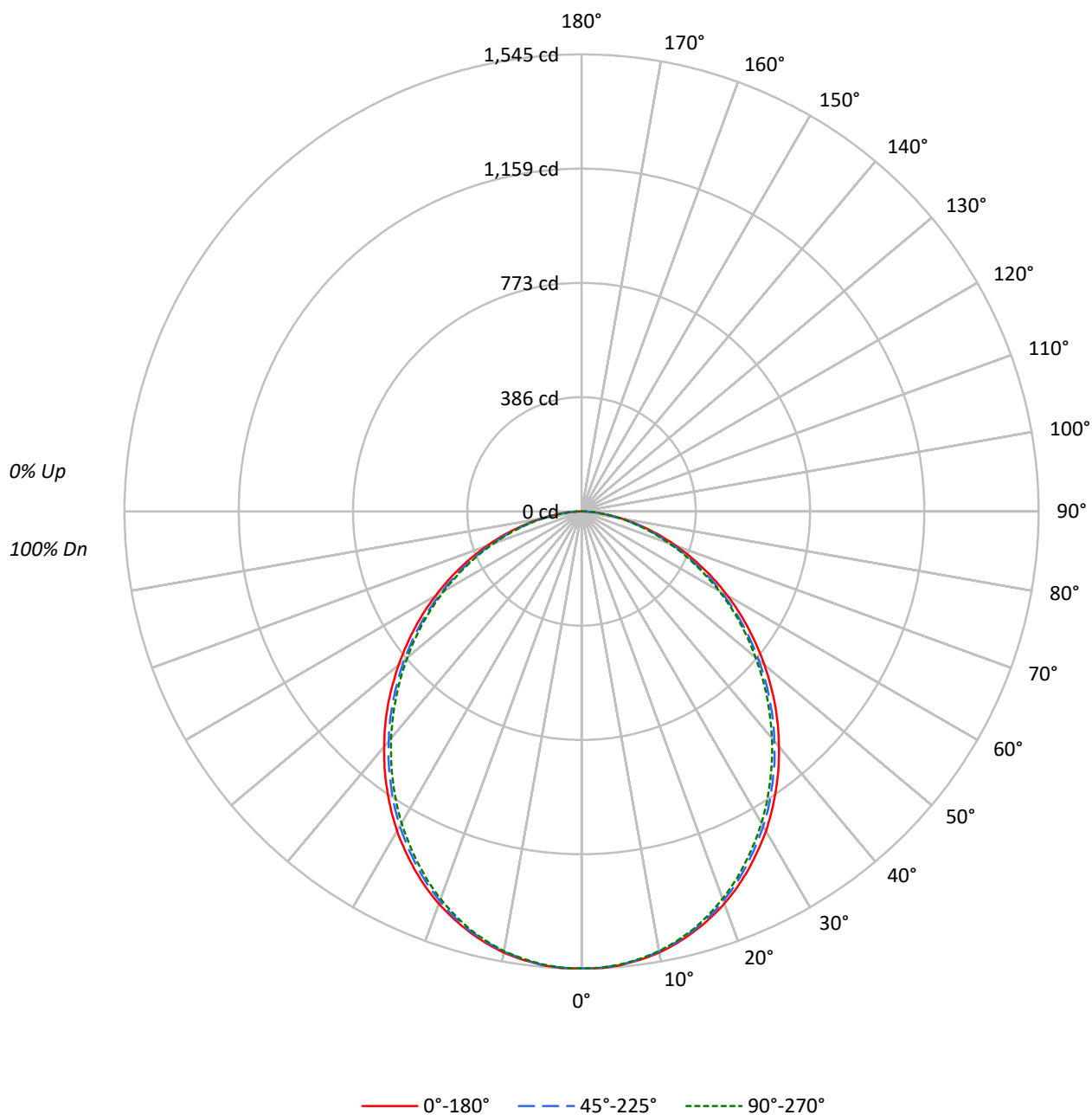
Lumens per Lamp: N/A
Luminaire Lumens: 3896.1 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					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°	2079	2079	2079
5°	2079	2077	2075
10°	2069	2064	2062
15°	2048	2041	2036
20°	2021	2007	1996
25°	1982	1961	1945
30°	1938	1908	1890
35°	1883	1847	1827
40°	1824	1781	1759
45°	1761	1711	1686
50°	1689	1637	1608
55°	1615	1558	1529
60°	1532	1471	1443
65°	1442	1374	1346
70°	1341	1269	1238
75°	1217	1149	1130
80°	1055	998	1003
85°	869	858	801

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1761 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	3.7
10°-20°	413.0	10.6
20°-30°	608.7	15.6
30°-40°	704.7	18.1
40°-50°	695.7	17.9
50°-60°	595.9	15.3
60°-70°	430.8	11.1
70°-80°	237.5	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°	1167.7	30.0
0°-40°	1872.3	48.1
0°-60°	3163.9	81.2
0°-90°	3896.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3896.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1539	1539	1538	1536	1536	146
15°	1471	1469	1465	1463	1462	415
25°	1335	1332	1321	1314	1310	615
35°	1146	1139	1124	1115	1112	717
45°	926	913	899	890	886	713
55°	688	675	664	655	652	615
65°	453	443	432	425	423	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°	1545.2	1545.2	1545.2	1545.2	1545.2
2.5°	1545.2	1545.2	1543.7	1543.7	1543.7
5°	1539.3	1538.6	1537.9	1536.4	1536.4
7.5°	1528.4	1528.4	1526.2	1526.2	1524.7
10°	1514.5	1513.0	1510.8	1510.8	1509.3
12.5°	1494.7	1493.2	1490.3	1489.6	1487.4
15°	1470.6	1469.1	1465.4	1463.3	1461.8
17.5°	1442.8	1440.6	1436.2	1432.5	1429.6
20°	1411.3	1408.4	1401.8	1397.4	1393.7
22.5°	1375.5	1372.5	1363.0	1357.9	1354.2
25°	1335.2	1331.6	1320.6	1314.0	1310.3
27.5°	1292.1	1287.7	1275.2	1267.9	1264.3
30°	1247.4	1240.8	1228.4	1219.6	1216.7
32.5°	1197.7	1191.1	1178.7	1168.4	1165.5
35°	1146.5	1139.1	1124.5	1115.0	1112.1
37.5°	1093.8	1084.3	1071.1	1061.6	1057.2
40°	1038.2	1028.7	1014.0	1003.8	1001.6
42.5°	982.6	970.9	958.4	948.2	943.8
45°	925.5	913.1	899.2	890.4	886.0
47.5°	865.5	853.8	841.4	831.1	827.5
50°	807.0	794.5	782.1	772.6	768.2
52.5°	747.0	734.6	722.8	714.8	710.4
55°	688.5	675.3	664.3	654.8	651.9
57.5°	629.2	617.5	605.1	596.3	594.1
60°	569.2	559.0	546.5	538.5	536.3
62.5°	511.4	501.2	489.5	481.4	477.8
65°	452.9	442.6	431.7	425.1	422.9
67.5°	395.8	386.3	376.8	370.2	368.7
70°	340.9	331.4	322.6	316.8	314.6
72.5°	286.1	279.5	270.7	267.0	264.8
75°	234.1	226.8	221.0	220.2	217.3
77.5°	183.6	182.9	173.4	171.9	171.9
80°	136.1	133.9	128.8	127.3	129.5
82.5°	93.6	92.2	89.3	88.5	87.8
85°	56.3	56.3	55.6	51.9	51.9
87.5°	25.6	24.9	24.1	24.9	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)