

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: P995629

Luminaire Tested: 24D3X-LP-WD-55-L935.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995629
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-L935.ies
Description: 2x4 D3X-LP AT 5500LM 3500K 90CRI
Light Source: -
Ballast/Driver: -

Summary

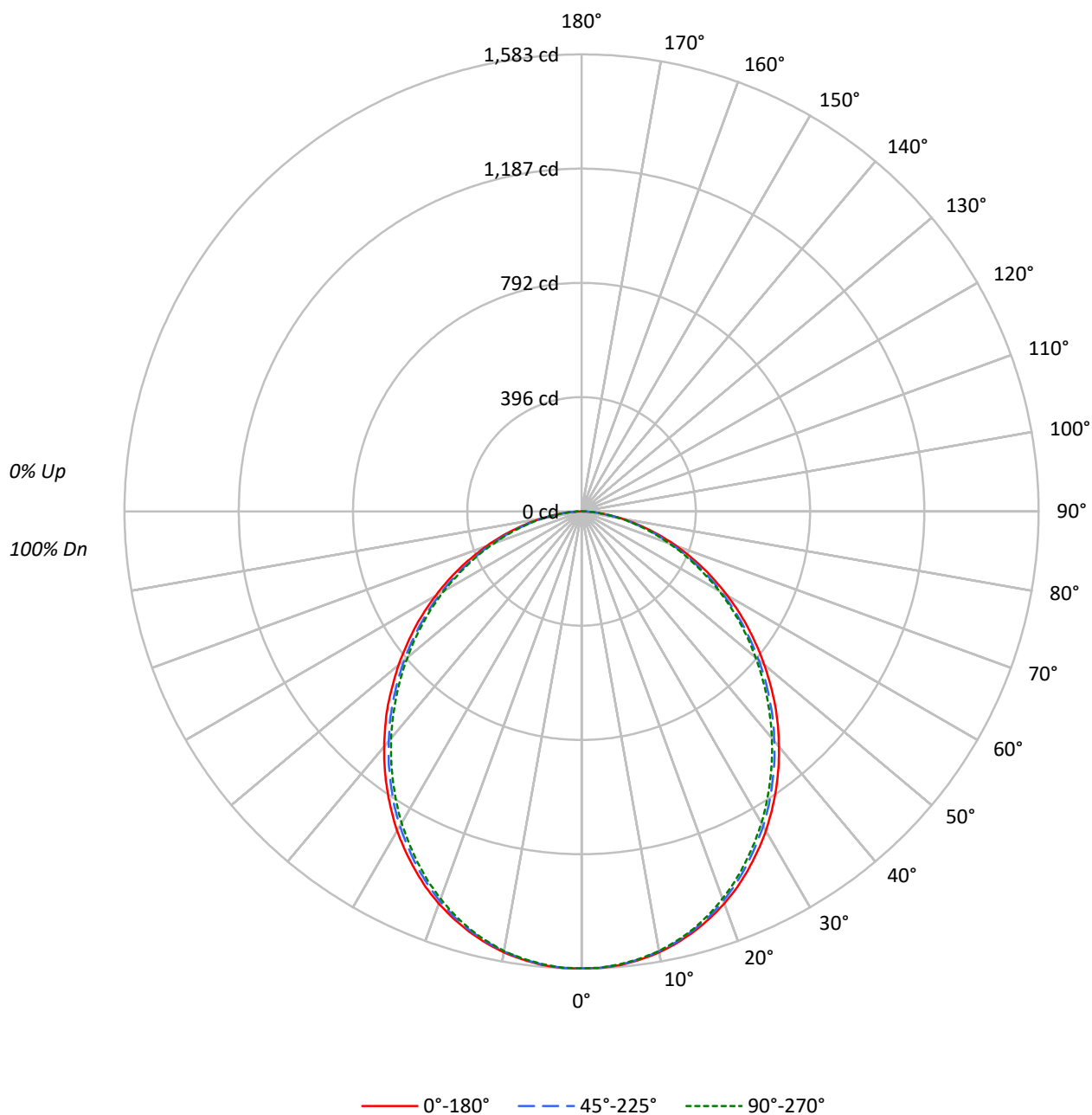
Lumens per Lamp: N/A
Luminaire Lumens: 3990.6 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	2130	2130	2130
5°	2130	2128	2125
10°	2119	2114	2112
15°	2098	2091	2086
20°	2070	2056	2044
25°	2030	2008	1992
30°	1985	1955	1936
35°	1929	1892	1871
40°	1868	1824	1802
45°	1804	1752	1727
50°	1730	1677	1647
55°	1654	1596	1566
60°	1569	1506	1478
65°	1477	1408	1379
70°	1374	1300	1268
75°	1247	1176	1157
80°	1080	1022	1027
85°	891	880	821

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1804 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	3.7
10°-20°	423.0	10.6
20°-30°	623.5	15.6
30°-40°	721.7	18.1
40°-50°	712.5	17.9
50°-60°	610.3	15.3
60°-70°	441.3	11.1
70°-80°	243.2	6.1
80°-90°	65.5	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°	1196.0	30.0
0°-40°	1917.7	48.1
0°-60°	3240.6	81.2
0°-90°	3990.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3990.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1583	1583	1583	1583	1583	
5°	1577	1576	1575	1574	1574	150
15°	1506	1505	1501	1499	1497	425
25°	1368	1364	1353	1346	1342	630
35°	1174	1167	1152	1142	1139	734
45°	948	935	921	912	908	730
55°	705	692	680	671	668	630
65°	464	453	442	435	433	460
75°	240	232	226	226	223	254
85°	58	58	57	53	53	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1582.7	1582.7	1582.7	1582.7	1582.7
2.5°	1582.7	1582.7	1581.2	1581.2	1581.2
5°	1576.7	1575.9	1575.2	1573.7	1573.7
7.5°	1565.4	1565.4	1563.2	1563.2	1561.7
10°	1551.2	1549.7	1547.5	1547.5	1546.0
12.5°	1531.0	1529.5	1526.5	1525.7	1523.5
15°	1506.2	1504.7	1501.0	1498.7	1497.2
17.5°	1477.8	1475.5	1471.0	1467.3	1464.3
20°	1445.5	1442.5	1435.8	1431.3	1427.6
22.5°	1408.8	1405.8	1396.1	1390.8	1387.1
25°	1367.6	1363.9	1352.6	1345.9	1342.1
27.5°	1323.4	1318.9	1306.2	1298.7	1294.9
30°	1277.7	1270.9	1258.2	1249.2	1246.2
32.5°	1226.7	1220.0	1207.2	1196.7	1193.7
35°	1174.3	1166.8	1151.8	1142.0	1139.0
37.5°	1120.3	1110.6	1097.1	1087.3	1082.8
40°	1063.4	1053.6	1038.6	1028.1	1025.9
42.5°	1006.4	994.4	981.7	971.2	966.7
45°	948.0	935.2	921.0	912.0	907.5
47.5°	886.5	874.5	861.8	851.3	847.5
50°	826.6	813.8	801.1	791.3	786.8
52.5°	765.1	752.4	740.4	732.1	727.6
55°	705.2	691.7	680.4	670.7	667.7
57.5°	644.5	632.5	619.7	610.7	608.5
60°	583.0	572.5	559.8	551.5	549.3
62.5°	523.8	513.3	501.3	493.1	489.3
65°	463.9	453.4	442.1	435.4	433.1
67.5°	405.4	395.7	385.9	379.2	377.7
70°	349.2	339.5	330.5	324.5	322.2
72.5°	293.0	286.3	277.3	273.5	271.3
75°	239.8	232.3	226.3	225.6	222.6
77.5°	188.1	187.3	177.6	176.1	176.1
80°	139.4	137.1	131.9	130.4	132.6
82.5°	95.9	94.4	91.4	90.7	89.9
85°	57.7	57.7	57.0	53.2	53.2
87.5°	26.2	25.5	24.7	25.5	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)