

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: P601180

Luminaire Tested: 24D3X-LP-55-L935

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601180
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-55-L935
Description: 2x4 D3X-LP AT 5500LM 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

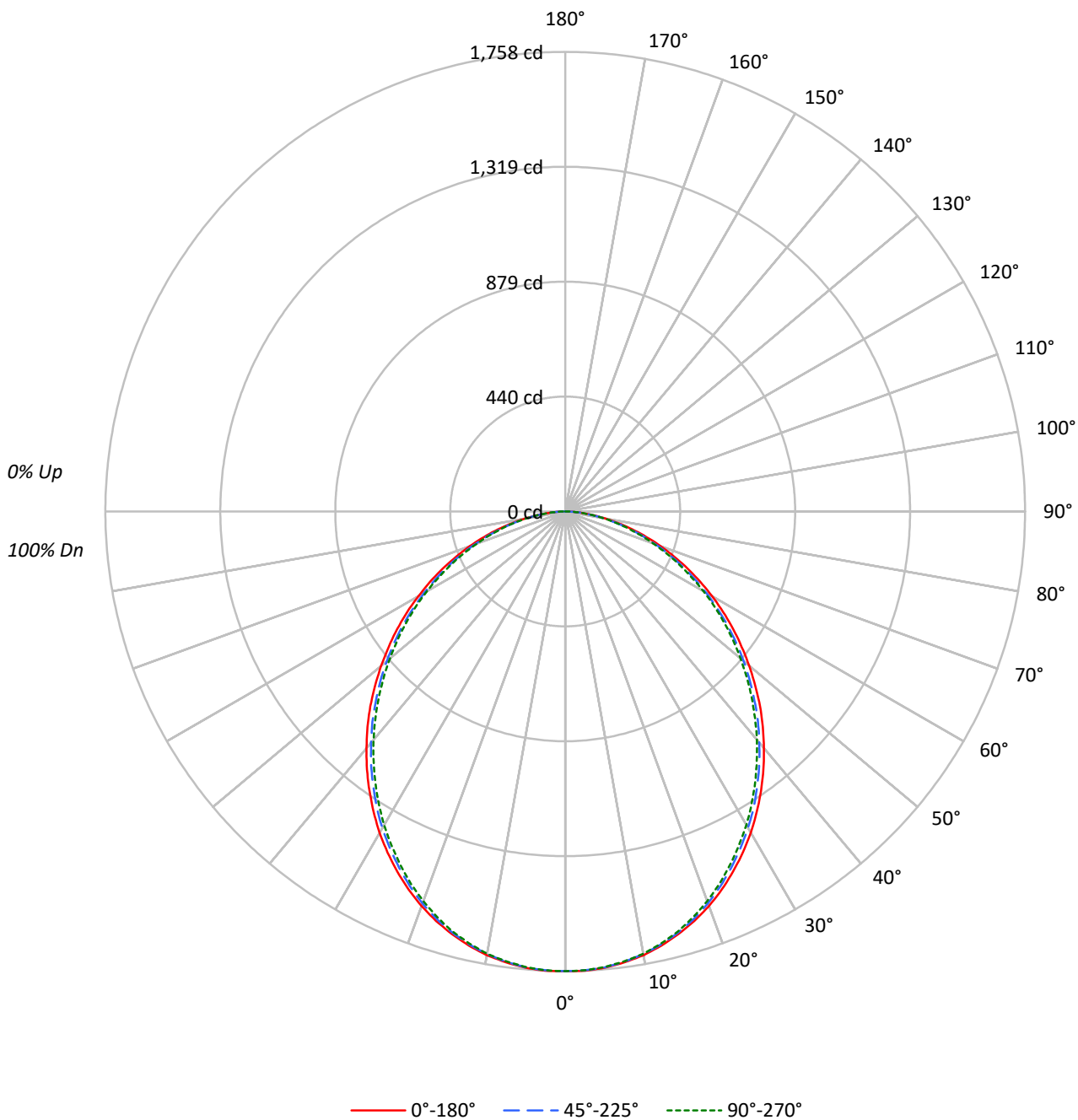
Lumens per Lamp: N/A
Luminaire Lumens: 4434.0 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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°	2366	2366	2366
5°	2366	2364	2362
10°	2355	2349	2347
15°	2331	2323	2317
20°	2300	2284	2271
25°	2256	2231	2214
30°	2206	2172	2151
35°	2143	2102	2079
40°	2075	2027	2002
45°	2004	1947	1919
50°	1922	1863	1830
55°	1838	1773	1740
60°	1743	1674	1642
65°	1641	1564	1532
70°	1526	1445	1408
75°	1385	1307	1286
80°	1200	1135	1142
85°	990	977	912

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2004 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	3.7
10°-20°	470.1	10.6
20°-30°	692.7	15.6
30°-40°	801.9	18.1
40°-50°	791.7	17.9
50°-60°	678.1	15.3
60°-70°	490.3	11.1
70°-80°	270.3	6.1
80°-90°	72.8	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°	1328.9	30.0
0°-40°	2130.8	48.1
0°-60°	3600.7	81.2
0°-90°	4434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1752	1751	1750	1748	1748	166
15°	1674	1672	1668	1665	1664	472
25°	1520	1515	1503	1495	1491	700
35°	1305	1296	1280	1269	1266	816
45°	1053	1039	1023	1013	1008	812
55°	784	768	756	745	742	700
65°	515	504	491	484	481	511
75°	266	258	252	251	247	283
85°	64	64	63	59	59	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1758.5	1758.5	1758.5	1758.5	1758.5
2.5°	1758.5	1758.5	1756.9	1756.9	1756.9
5°	1751.9	1751.0	1750.2	1748.5	1748.5
7.5°	1739.4	1739.4	1736.9	1736.9	1735.2
10°	1723.6	1721.9	1719.4	1719.4	1717.7
12.5°	1701.1	1699.4	1696.1	1695.2	1692.7
15°	1673.6	1671.9	1667.8	1665.3	1663.6
17.5°	1642.0	1639.5	1634.5	1630.3	1627.0
20°	1606.2	1602.8	1595.3	1590.3	1586.2
22.5°	1565.4	1562.0	1551.2	1545.4	1541.2
25°	1519.6	1515.4	1502.9	1495.4	1491.3
27.5°	1470.4	1465.4	1451.3	1443.0	1438.8
30°	1419.6	1412.1	1398.0	1388.0	1384.7
32.5°	1363.0	1355.5	1341.4	1329.7	1326.4
35°	1304.7	1296.4	1279.8	1268.9	1265.6
37.5°	1244.8	1234.0	1219.0	1208.2	1203.2
40°	1181.5	1170.7	1154.0	1142.4	1139.9
42.5°	1118.2	1104.9	1090.8	1079.1	1074.1
45°	1053.3	1039.1	1023.3	1013.3	1008.3
47.5°	985.0	971.7	957.5	945.9	941.7
50°	918.4	904.2	890.1	879.3	874.3
52.5°	850.1	836.0	822.6	813.5	808.5
55°	783.5	768.5	756.0	745.2	741.9
57.5°	716.1	702.7	688.6	678.6	676.1
60°	647.8	636.1	622.0	612.8	610.3
62.5°	582.0	570.4	557.0	547.9	543.7
65°	515.4	503.7	491.3	483.8	481.3
67.5°	450.5	439.6	428.8	421.3	419.6
70°	388.0	377.2	367.2	360.5	358.0
72.5°	325.6	318.1	308.1	303.9	301.4
75°	266.4	258.1	251.5	250.6	247.3
77.5°	209.0	208.2	197.3	195.7	195.7
80°	154.9	152.4	146.5	144.9	147.4
82.5°	106.6	104.9	101.6	100.7	99.9
85°	64.1	64.1	63.3	59.1	59.1
87.5°	29.1	28.3	27.5	28.3	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)