

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: P#

Luminaire Tested: 14D3X-LP-WD-45-L835.ies

Issue Date: 2/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P601206)
Test Lab: INNOVATION CENTER
Issue Date: 2/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 14D3X-LP-WD-45-L835.ies
Description: 1x4 D3X-LP ROUND PERF AT 4500lm 3500K 80CRI
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4181.4 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.28
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

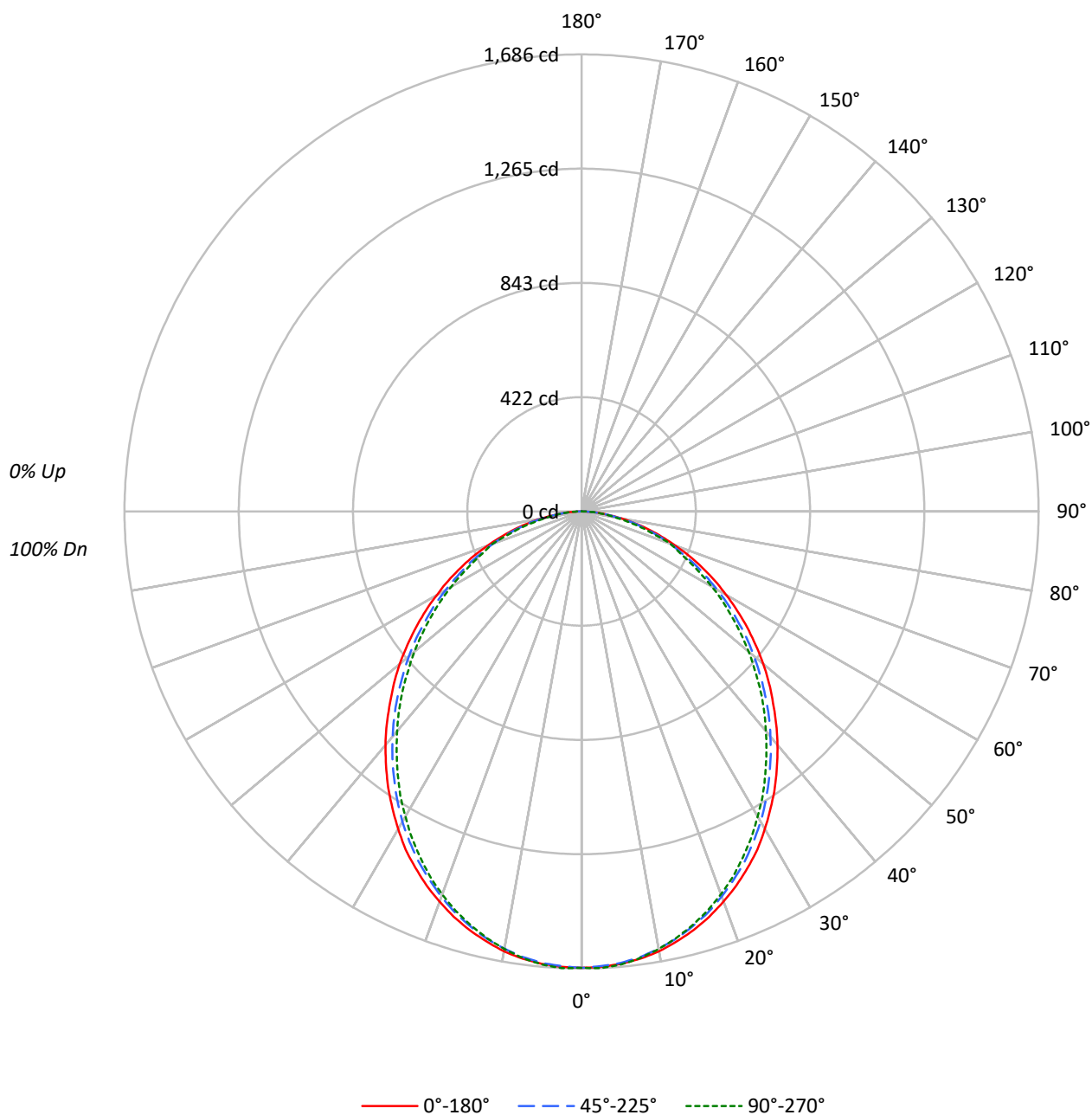
Input Watts (W): 54.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	98	95	98	95	92	94	92	89	91	88	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	56	48	43	54	47	42	52	46	42	40		40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	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°	4531	4531	4531
5°	4525	4515	4532
10°	4503	4476	4479
15°	4453	4415	4402
20°	4387	4330	4305
25°	4306	4229	4181
30°	4203	4107	4038
35°	4086	3960	3883
40°	3952	3809	3718
45°	3801	3646	3552
50°	3664	3478	3369
55°	3498	3294	3179
60°	3314	3108	2988
65°	3125	2921	2787
70°	2889	2724	2753
75°	2661	2507	2378
80°	2318	2222	1993
85°	1948	1831	1831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3801 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	3.8
10°-20°	447.4	10.7
20°-30°	656.6	15.7
30°-40°	756.2	18.1
40°-50°	742.3	17.8
50°-60°	632.9	15.1
60°-70°	457.8	10.9
70°-80°	257.4	6.2
80°-90°	71.9	1.7
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°	1262.8	30.2
0°-40°	2019.0	48.3
0°-60°	3394.2	81.2
0°-90°	4181.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4181.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1675	1676	1672	1676	1678	159
15°	1598	1596	1585	1582	1580	451
25°	1450	1439	1424	1413	1408	668
35°	1244	1229	1205	1189	1182	777
45°	999	987	958	940	933	772
55°	746	729	702	685	678	667
65°	491	477	459	441	438	487
75°	256	251	241	231	229	271
85°	63	66	59	59	59	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.9	1683.9	1683.9	1683.9	1683.9
2.5°	1681.4	1682.6	1678.9	1685.1	1686.3
5°	1675.2	1676.4	1671.5	1676.4	1677.7
7.5°	1664.1	1664.1	1657.9	1661.6	1661.6
10°	1648.0	1645.5	1638.1	1639.3	1639.3
12.5°	1624.5	1624.5	1614.6	1614.6	1612.1
15°	1598.5	1596.1	1584.9	1582.5	1580.0
17.5°	1567.6	1563.9	1551.6	1546.6	1544.2
20°	1531.8	1525.6	1512.0	1505.8	1503.4
22.5°	1493.5	1484.8	1468.7	1461.3	1458.8
25°	1450.2	1439.1	1424.2	1413.1	1408.2
27.5°	1405.7	1394.6	1373.5	1361.2	1356.2
30°	1352.5	1341.4	1321.6	1306.8	1299.4
32.5°	1298.1	1288.2	1264.7	1248.7	1243.7
35°	1243.7	1228.9	1205.4	1189.3	1181.9
37.5°	1184.4	1172.0	1146.1	1128.8	1120.1
40°	1125.0	1112.7	1084.2	1065.7	1058.3
42.5°	1063.2	1047.2	1022.4	1002.6	996.5
45°	998.9	986.6	958.1	939.6	933.4
47.5°	938.4	919.8	893.9	875.3	866.7
50°	875.3	858.0	830.8	811.0	804.8
52.5°	809.8	794.9	767.7	748.0	740.5
55°	745.5	729.4	702.2	684.9	677.5
57.5°	681.2	666.4	641.6	621.9	616.9
60°	615.7	602.1	577.4	561.3	555.1
62.5°	555.1	539.0	516.8	500.7	494.5
65°	490.8	477.2	458.7	441.4	437.7
67.5°	431.5	421.6	398.1	385.7	387.0
70°	367.2	367.2	346.2	333.8	349.9
72.5°	310.3	311.5	293.0	285.6	279.4
75°	255.9	251.0	241.1	231.2	228.7
77.5°	201.5	204.0	195.3	176.8	174.3
80°	149.6	163.2	143.4	131.0	128.6
82.5°	102.6	116.2	98.9	92.7	91.5
85°	63.1	65.5	59.3	59.3	59.3
87.5°	27.2	30.9	29.7	29.7	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)