

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-45-L840.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-45-L840.ies
Description: 1x4 D3X-LP AT 4500lm 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4669.0 lumens
Efficiency: N/A
Efficacy: 86.3 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

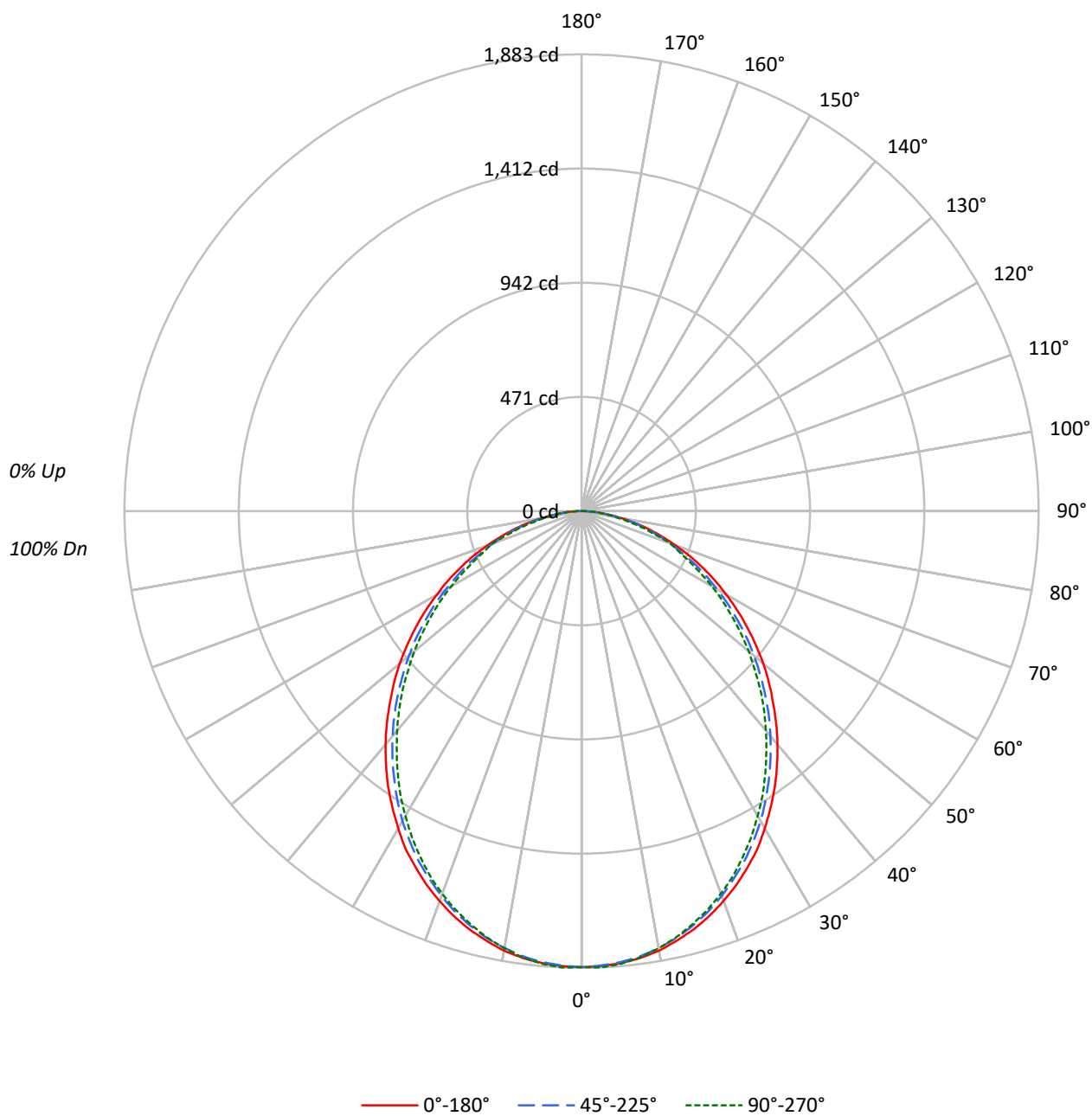
Input Watts (W): 54.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	87	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	73	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	63	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	56	48	43	54	47	42	52	46	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5060	5060	5060
5°	5053	5042	5060
10°	5028	4998	5002
15°	4973	4930	4915
20°	4898	4835	4807
25°	4808	4722	4669
30°	4693	4585	4508
35°	4562	4422	4335
40°	4413	4253	4151
45°	4245	4072	3967
50°	4092	3884	3762
55°	3905	3679	3549
60°	3700	3470	3336
65°	3489	3261	3112
70°	3226	3041	3074
75°	2972	2799	2655
80°	2588	2481	2225
85°	2174	2047	2047

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4245 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	3.8
10°-20°	499.6	10.7
20°-30°	733.1	15.7
30°-40°	844.4	18.1
40°-50°	828.9	17.8
50°-60°	706.7	15.1
60°-70°	511.2	10.9
70°-80°	287.5	6.2
80°-90°	80.3	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°	1410.1	30.2
0°-40°	2254.4	48.3
0°-60°	3790.0	81.2
0°-90°	4669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1880	1880	1880	1880	1880	
5°	1870	1872	1866	1872	1873	178
15°	1785	1782	1770	1767	1764	503
25°	1619	1607	1590	1578	1572	746
35°	1389	1372	1346	1328	1320	868
45°	1115	1102	1070	1049	1042	862
55°	832	814	784	765	756	744
65°	548	533	512	493	489	544
75°	286	280	269	258	255	302
85°	70	73	66	66	66	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1880.2	1880.2	1880.2	1880.2	1880.2
2.5°	1877.4	1878.8	1874.7	1881.6	1883.0
5°	1870.5	1871.9	1866.4	1871.9	1873.3
7.5°	1858.1	1858.1	1851.2	1855.4	1855.4
10°	1840.2	1837.4	1829.1	1830.5	1830.5
12.5°	1813.9	1813.9	1802.9	1802.9	1800.1
15°	1785.0	1782.2	1769.8	1767.0	1764.2
17.5°	1750.4	1746.3	1732.5	1727.0	1724.2
20°	1710.4	1703.5	1688.3	1681.4	1678.7
22.5°	1667.6	1658.0	1640.0	1631.7	1629.0
25°	1619.3	1606.9	1590.3	1577.9	1572.4
27.5°	1569.6	1557.2	1533.7	1519.9	1514.4
30°	1510.2	1497.8	1475.7	1459.2	1450.9
32.5°	1449.5	1438.5	1412.2	1394.3	1388.8
35°	1388.8	1372.2	1346.0	1328.0	1319.7
37.5°	1322.5	1308.7	1279.7	1260.4	1250.7
40°	1256.2	1242.4	1210.7	1190.0	1181.7
42.5°	1187.2	1169.3	1141.7	1119.6	1112.7
45°	1115.4	1101.6	1069.9	1049.2	1042.3
47.5°	1047.8	1027.1	998.1	977.4	967.7
50°	977.4	958.1	927.7	905.6	898.7
52.5°	904.2	887.6	857.3	835.2	826.9
55°	832.4	814.5	784.1	764.8	756.5
57.5°	760.6	744.1	716.5	694.4	688.9
60°	687.5	672.3	644.7	626.7	619.8
62.5°	619.8	601.9	577.0	559.1	552.2
65°	548.0	532.9	512.2	492.8	488.7
67.5°	481.8	470.7	444.5	430.7	432.1
70°	410.0	410.0	386.5	372.7	390.7
72.5°	346.5	347.9	327.2	318.9	312.0
75°	285.8	280.2	269.2	258.1	255.4
77.5°	225.0	227.8	218.1	197.4	194.6
80°	167.0	182.2	160.1	146.3	143.6
82.5°	114.6	129.8	110.4	103.5	102.2
85°	70.4	73.2	66.3	66.3	66.3
87.5°	30.4	34.5	33.1	33.1	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)