

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: P601248

Luminaire Tested: 14D3X-LP-50-L840

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 14D3X-LP-50-L840
Description: 1x4 D3X-LP AT 5000lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

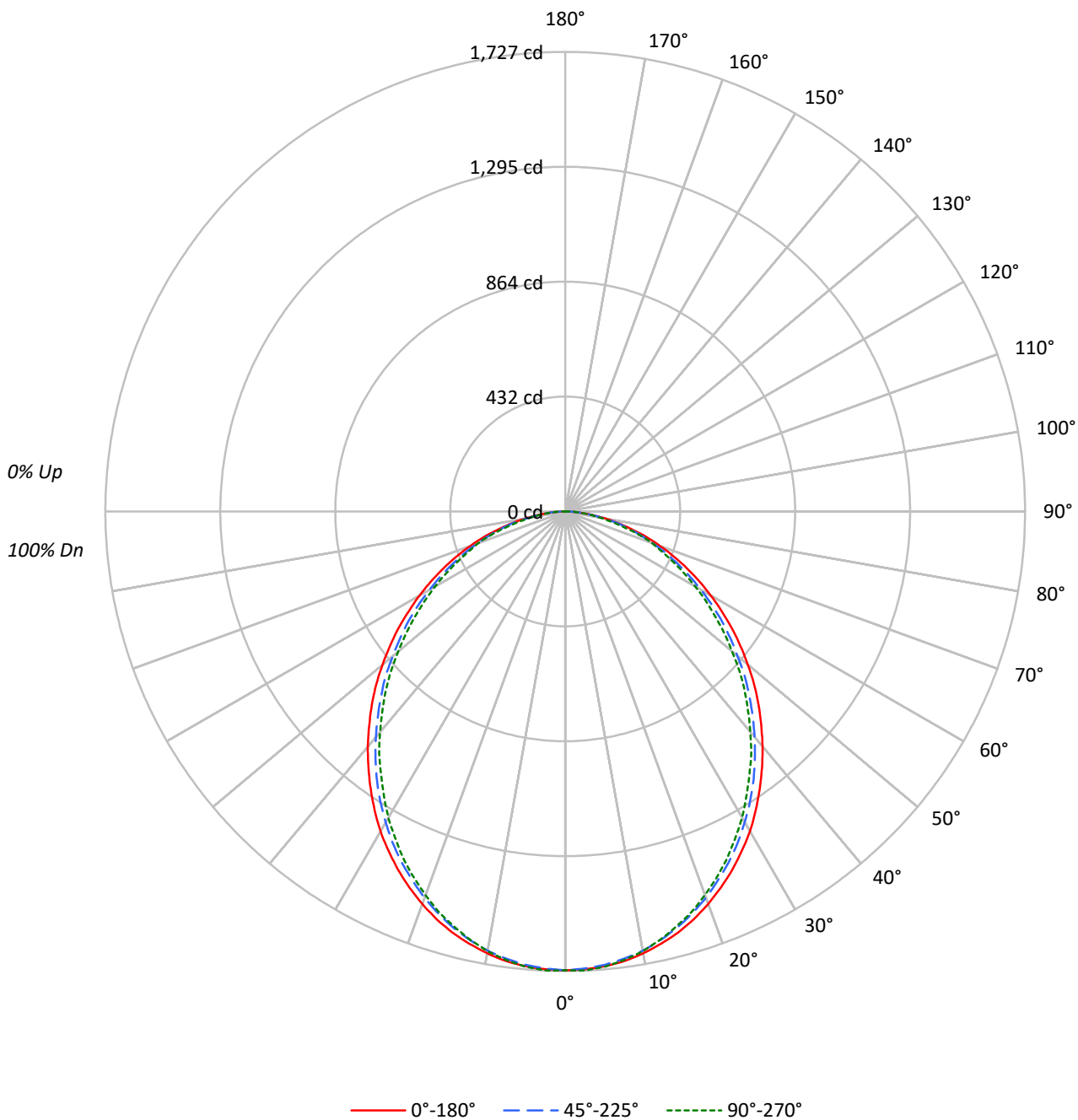
Lumens per Lamp: N/A
Luminaire Lumens: 4266.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48.6
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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	79	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	67	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	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°	4640	4640	4640
5°	4634	4619	4637
10°	4608	4580	4586
15°	4563	4513	4498
20°	4495	4424	4392
25°	4410	4317	4271
30°	4312	4190	4127
35°	4183	4051	3962
40°	4051	3886	3799
45°	3906	3719	3629
50°	3748	3537	3424
55°	3584	3369	3226
60°	3399	3164	3037
65°	3207	2965	2836
70°	2984	2763	2728
75°	2682	2555	2367
80°	2365	2208	2035
85°	1905	1905	1871

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3906 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	3.8
10°-20°	457.4	10.7
20°-30°	670.8	15.7
30°-40°	772.6	18.1
40°-50°	758.1	17.8
50°-60°	645.0	15.1
60°-70°	466.4	10.9
70°-80°	260.6	6.1
80°-90°	72.6	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°	1290.7	30.3
0°-40°	2063.3	48.4
0°-60°	3466.5	81.3
0°-90°	4266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1724	1724	1724	1724	1724	
5°	1715	1715	1710	1715	1716	163
15°	1638	1632	1620	1618	1614	462
25°	1485	1473	1454	1443	1438	684
35°	1273	1256	1233	1214	1206	796
45°	1026	1006	977	958	954	792
55°	764	744	718	698	688	682
65°	504	490	466	448	445	499
75°	258	255	246	231	228	277
85°	62	65	62	61	61	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1724.3	1724.3	1724.3	1724.3	1724.3
2.5°	1722.1	1722.1	1718.7	1725.5	1726.6
5°	1715.4	1715.4	1709.8	1715.4	1716.5
7.5°	1704.1	1701.9	1695.2	1699.7	1699.7
10°	1686.2	1684.0	1676.1	1677.2	1678.3
12.5°	1663.8	1660.4	1650.3	1649.2	1648.1
15°	1638.0	1632.3	1620.0	1617.8	1614.4
17.5°	1606.5	1598.7	1584.1	1580.7	1578.5
20°	1569.5	1559.4	1544.8	1537.0	1533.6
22.5°	1529.1	1517.9	1500.0	1492.1	1487.6
25°	1485.4	1473.0	1454.0	1442.7	1438.3
27.5°	1437.1	1423.7	1403.5	1388.9	1383.3
30°	1387.8	1370.9	1348.5	1333.9	1328.3
32.5°	1331.7	1313.7	1292.4	1274.5	1266.6
35°	1273.3	1256.5	1233.0	1213.9	1206.0
37.5°	1213.9	1198.2	1170.1	1153.3	1147.7
40°	1153.3	1135.3	1106.2	1086.0	1081.5
42.5°	1089.4	1073.6	1041.1	1024.3	1016.4
45°	1026.5	1006.3	977.2	958.1	953.6
47.5°	962.6	940.1	914.3	893.0	887.4
50°	895.3	875.1	844.8	825.7	817.9
52.5°	829.1	811.1	780.8	759.5	753.9
55°	764.0	743.8	718.0	697.8	687.7
57.5°	695.6	679.9	652.9	633.9	626.0
60°	631.6	613.7	587.9	572.2	564.3
62.5°	566.6	548.6	527.3	510.5	503.7
65°	503.7	490.3	465.6	447.6	445.4
67.5°	440.9	429.7	408.4	390.4	391.5
70°	379.2	369.1	351.2	339.9	346.7
72.5°	320.9	315.2	295.1	287.2	290.6
75°	258.0	254.7	245.7	231.1	227.7
77.5°	205.3	207.5	197.5	179.5	175.0
80°	152.6	158.2	142.5	136.9	131.3
82.5°	105.5	113.3	99.8	95.4	93.1
85°	61.7	65.1	61.7	60.6	60.6
87.5°	25.8	30.3	30.3	31.4	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)