

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: P601215

Luminaire Tested: 14D3X-LP-20-L940

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601215
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-20-L940
Description: 1x4 D3X-LP AT 2000lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

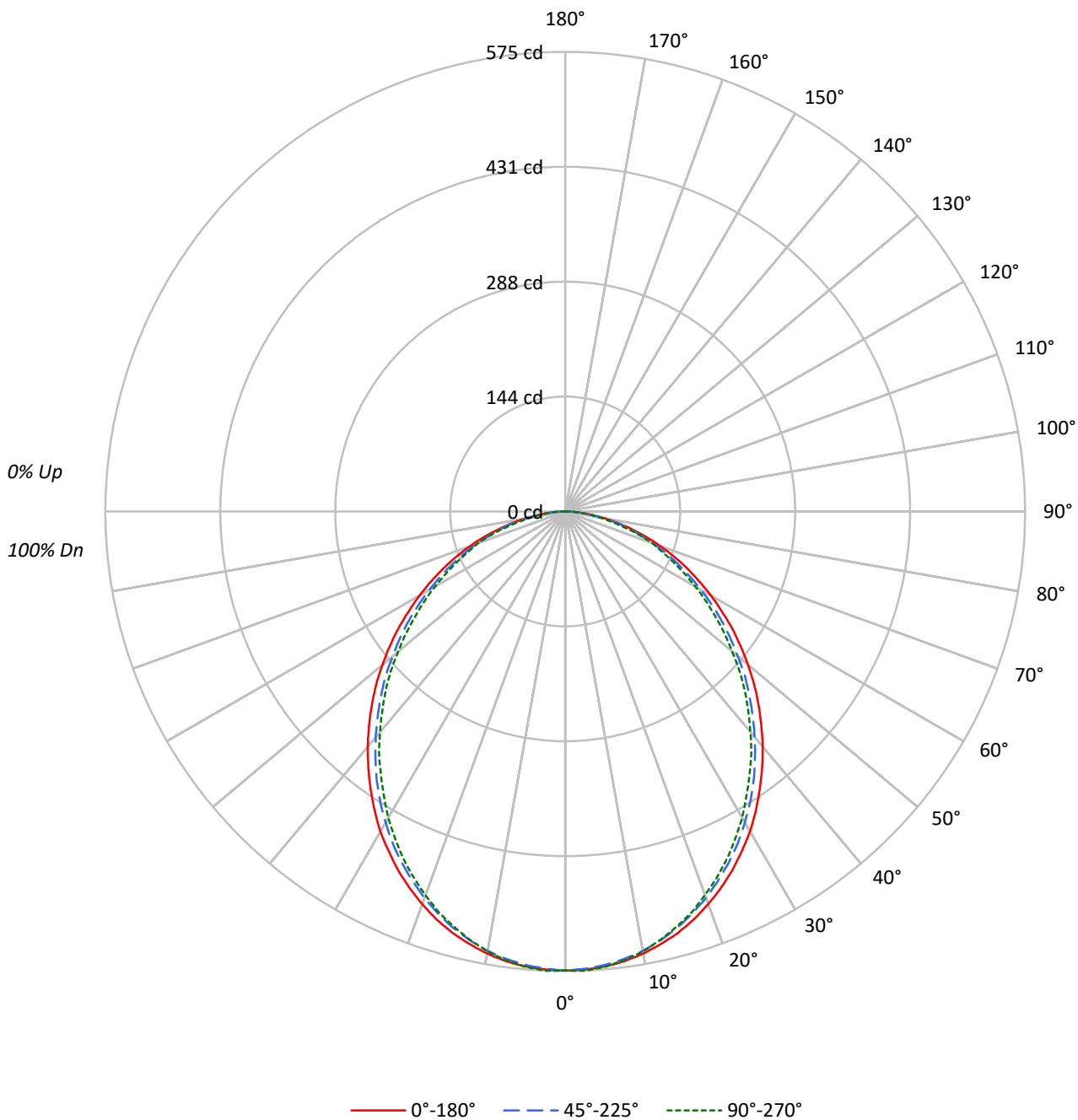
Lumens per Lamp: N/A
Luminaire Lumens: 1421.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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°	1546	1546	1546
5°	1543	1538	1545
10°	1535	1526	1528
15°	1520	1503	1498
20°	1497	1474	1463
25°	1469	1438	1423
30°	1436	1396	1375
35°	1393	1349	1320
40°	1350	1294	1265
45°	1301	1239	1209
50°	1248	1178	1140
55°	1194	1122	1075
60°	1132	1054	1012
65°	1068	988	945
70°	994	921	909
75°	894	850	789
80°	787	736	677
85°	636	636	624

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1301 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	3.8
10°-20°	152.4	10.7
20°-30°	223.4	15.7
30°-40°	257.4	18.1
40°-50°	252.5	17.8
50°-60°	214.9	15.1
60°-70°	155.3	10.9
70°-80°	86.8	6.1
80°-90°	24.2	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°	429.9	30.3
0°-40°	687.3	48.4
0°-60°	1154.7	81.3
0°-90°	1421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1421.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	571	571	570	571	572	54
15°	546	544	540	539	538	154
25°	495	491	484	481	479	228
35°	424	418	411	404	402	265
45°	342	335	326	319	318	264
55°	254	248	239	232	229	227
65°	168	163	155	149	148	166
75°	86	85	82	77	76	92
85°	21	22	21	20	20	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	574.4	574.4	574.4	574.4	574.4
2.5°	573.6	573.6	572.5	574.7	575.1
5°	571.4	571.4	569.5	571.4	571.8
7.5°	567.6	566.9	564.7	566.2	566.2
10°	561.7	560.9	558.3	558.7	559.1
12.5°	554.2	553.1	549.7	549.3	549.0
15°	545.6	543.7	539.6	538.9	537.8
17.5°	535.1	532.5	527.7	526.5	525.8
20°	522.8	519.4	514.6	512.0	510.8
22.5°	509.4	505.6	499.6	497.0	495.5
25°	494.8	490.7	484.3	480.6	479.1
27.5°	478.7	474.2	467.5	462.6	460.8
30°	462.3	456.7	449.2	444.3	442.5
32.5°	443.6	437.6	430.5	424.5	421.9
35°	424.1	418.5	410.7	404.3	401.7
37.5°	404.3	399.1	389.8	384.2	382.3
40°	384.2	378.2	368.5	361.7	360.2
42.5°	362.9	357.6	346.8	341.2	338.6
45°	341.9	335.2	325.5	319.1	317.6
47.5°	320.6	313.2	304.6	297.5	295.6
50°	298.2	291.5	281.4	275.0	272.4
52.5°	276.2	270.2	260.1	253.0	251.1
55°	254.5	247.8	239.2	232.4	229.1
57.5°	231.7	226.5	217.5	211.1	208.5
60°	210.4	204.4	195.8	190.6	188.0
62.5°	188.7	182.7	175.6	170.0	167.8
65°	167.8	163.3	155.1	149.1	148.4
67.5°	146.9	143.1	136.0	130.0	130.4
70°	126.3	122.9	117.0	113.2	115.5
72.5°	106.9	105.0	98.3	95.7	96.8
75°	86.0	84.8	81.8	77.0	75.9
77.5°	68.4	69.1	65.8	59.8	58.3
80°	50.8	52.7	47.5	45.6	43.7
82.5°	35.1	37.7	33.3	31.8	31.0
85°	20.6	21.7	20.6	20.2	20.2
87.5°	8.6	10.1	10.1	10.5	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)