

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: P601242

Luminaire Tested: 14D3X-LP-45-L840

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601242
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-45-L840
Description: 1x4 D3X-LP AT 4500lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

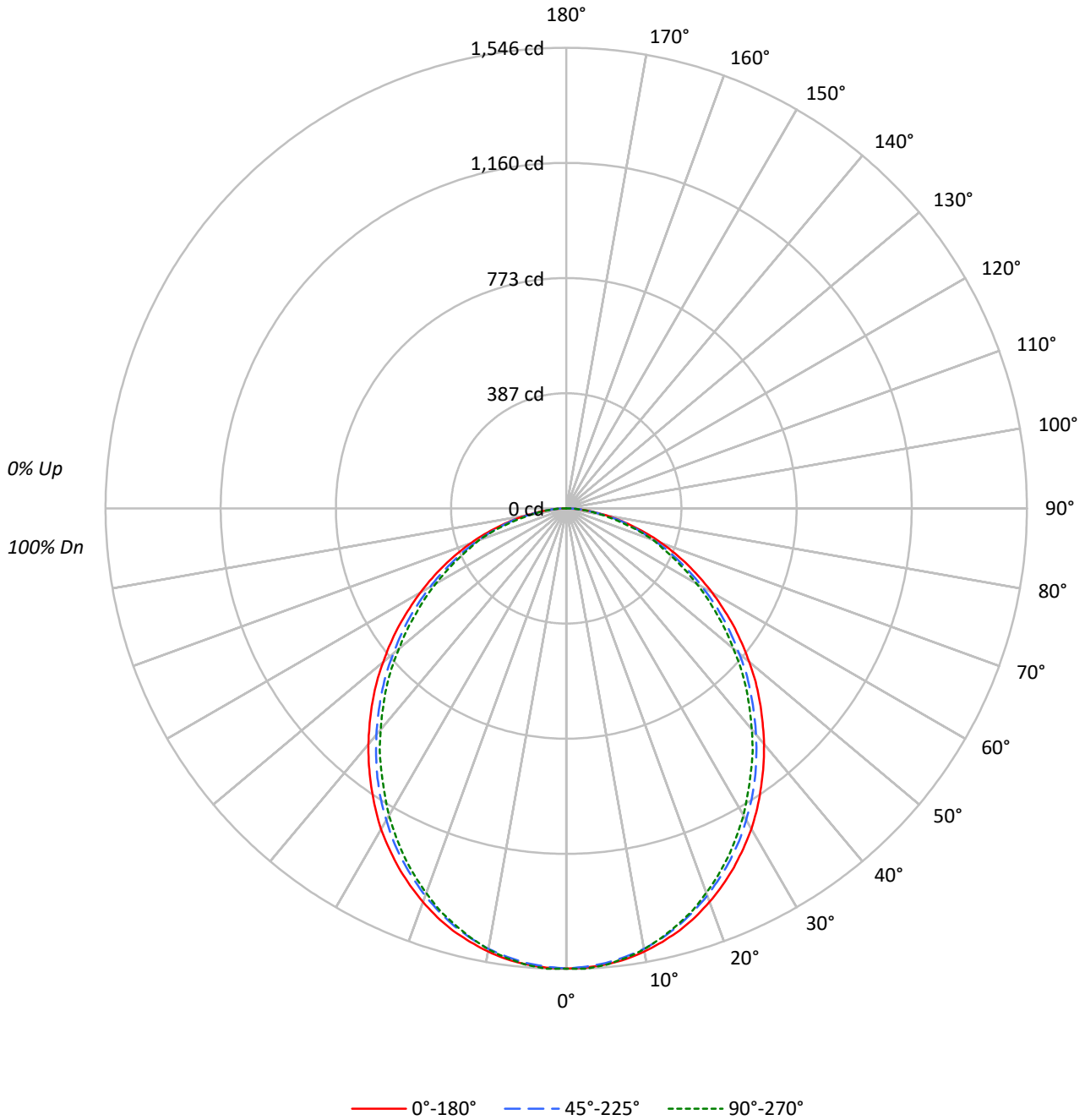
Lumens per Lamp: N/A
Luminaire Lumens: 3821.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.9
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°	4156	4156	4156
5°	4150	4137	4153
10°	4127	4102	4108
15°	4087	4042	4028
20°	4026	3962	3934
25°	3950	3867	3825
30°	3862	3753	3697
35°	3747	3628	3549
40°	3629	3481	3403
45°	3499	3331	3250
50°	3357	3168	3067
55°	3210	3017	2890
60°	3045	2834	2720
65°	2873	2655	2540
70°	2672	2474	2443
75°	2403	2288	2121
80°	2118	1977	1822
85°	1707	1707	1677

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3499 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	3.8
10°-20°	409.7	10.7
20°-30°	600.8	15.7
30°-40°	692.0	18.1
40°-50°	679.0	17.8
50°-60°	577.7	15.1
60°-70°	417.7	10.9
70°-80°	233.4	6.1
80°-90°	65.0	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°	1156.1	30.3
0°-40°	1848.1	48.4
0°-60°	3104.9	81.3
0°-90°	3821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1536	1536	1531	1536	1537	146
15°	1467	1462	1451	1449	1446	413
25°	1330	1319	1302	1292	1288	612
35°	1140	1125	1104	1087	1080	713
45°	919	901	875	858	854	709
55°	684	666	643	625	616	611
65°	451	439	417	401	399	447
75°	231	228	220	207	204	248
85°	55	58	55	54	54	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1544.5	1544.5	1544.5	1544.5	1544.5
2.5°	1542.5	1542.5	1539.4	1545.5	1546.5
5°	1536.4	1536.4	1531.4	1536.4	1537.4
7.5°	1526.4	1524.4	1518.3	1522.4	1522.4
10°	1510.3	1508.3	1501.3	1502.3	1503.3
12.5°	1490.2	1487.2	1478.1	1477.1	1476.1
15°	1467.1	1462.1	1451.0	1449.0	1446.0
17.5°	1439.0	1431.9	1418.9	1415.8	1413.8
20°	1405.8	1396.8	1383.7	1376.7	1373.6
22.5°	1369.6	1359.6	1343.5	1336.5	1332.4
25°	1330.4	1319.4	1302.3	1292.2	1288.2
27.5°	1287.2	1275.2	1257.1	1244.0	1239.0
30°	1243.0	1227.9	1207.8	1194.8	1189.8
32.5°	1192.8	1176.7	1157.6	1141.5	1134.5
35°	1140.5	1125.4	1104.3	1087.3	1080.2
37.5°	1087.3	1073.2	1048.1	1033.0	1028.0
40°	1033.0	1016.9	990.8	972.7	968.7
42.5°	975.7	961.6	932.5	917.4	910.4
45°	919.4	901.4	875.2	858.1	854.1
47.5°	862.2	842.1	819.0	799.9	794.8
50°	801.9	783.8	756.7	739.6	732.5
52.5°	742.6	726.5	699.4	680.3	675.3
55°	684.3	666.2	643.1	625.0	616.0
57.5°	623.0	608.9	584.8	567.7	560.7
60°	565.7	549.7	526.5	512.5	505.4
62.5°	507.5	491.4	472.3	457.2	451.2
65°	451.2	439.1	417.0	400.9	398.9
67.5°	394.9	384.9	365.8	349.7	350.7
70°	339.6	330.6	314.5	304.5	310.5
72.5°	287.4	282.4	264.3	257.2	260.3
75°	231.1	228.1	220.1	207.0	204.0
77.5°	183.9	185.9	176.9	160.8	156.8
80°	136.7	141.7	127.6	122.6	117.6
82.5°	94.5	101.5	89.4	85.4	83.4
85°	55.3	58.3	55.3	54.3	54.3
87.5°	23.1	27.1	27.1	28.1	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)