

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: P601224

Luminaire Tested: 14D3X-LP-30-L840

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601224
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-30-L840
Description: 1x4 D3X-LP AT 3000lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

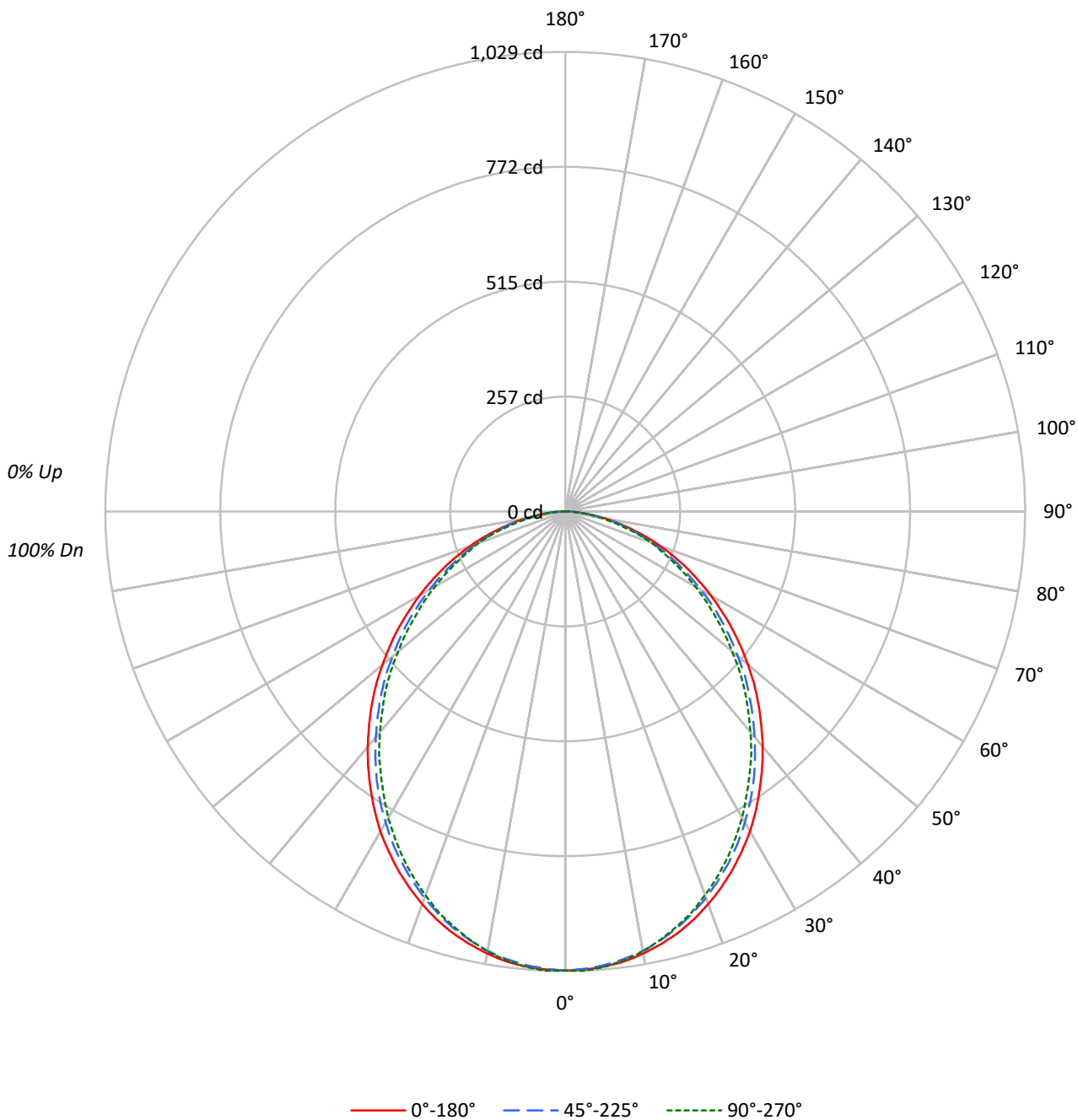
Lumens per Lamp: N/A
Luminaire Lumens: 2543.0 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27
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



TEST NUMBER: P601224
CATALOG NUMBER: 14D3X-LP-30-L840

Luminous Intensity Polar Plot





TEST NUMBER: P601224
 CATALOG NUMBER: 14D3X-LP-30-L840

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°	2766	2766	2766
5°	2762	2753	2764
10°	2747	2730	2734
15°	2720	2690	2681
20°	2679	2637	2618
25°	2629	2573	2546
30°	2571	2498	2460
35°	2493	2415	2362
40°	2415	2316	2265
45°	2329	2217	2163
50°	2234	2108	2041
55°	2137	2008	1924
60°	2026	1886	1810
65°	1912	1767	1691
70°	1778	1647	1626
75°	1599	1523	1412
80°	1410	1316	1212
85°	1136	1136	1115

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2329 cd/sqm



TEST NUMBER: P601224
 CATALOG NUMBER: 14D3X-LP-30-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	3.8
10°-20°	272.7	10.7
20°-30°	399.9	15.7
30°-40°	460.6	18.1
40°-50°	451.9	17.8
50°-60°	384.5	15.1
60°-70°	278.0	10.9
70°-80°	155.3	6.1
80°-90°	43.3	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°	769.4	30.3
0°-40°	1230.0	48.4
0°-60°	2066.4	81.3
0°-90°	2543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1022	1022	1019	1022	1023	97
15°	976	973	966	964	962	275
25°	885	878	867	860	857	408
35°	759	749	735	724	719	475
45°	612	600	582	571	568	472
55°	455	443	428	416	410	407
65°	300	292	278	267	266	297
75°	154	152	146	138	136	165
85°	37	39	37	36	36	44
90°	0	0	0	0	0	



TEST NUMBER: P601224
 CATALOG NUMBER: 14D3X-LP-30-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1027.9	1027.9	1027.9	1027.9	1027.9
2.5°	1026.6	1026.6	1024.5	1028.6	1029.2
5°	1022.5	1022.5	1019.2	1022.5	1023.2
7.5°	1015.9	1014.5	1010.5	1013.2	1013.2
10°	1005.2	1003.8	999.1	999.8	1000.5
12.5°	991.8	989.8	983.8	983.1	982.4
15°	976.4	973.1	965.7	964.4	962.4
17.5°	957.7	953.0	944.3	942.3	941.0
20°	935.6	929.6	920.9	916.2	914.2
22.5°	911.5	904.8	894.1	889.5	886.8
25°	885.4	878.1	866.7	860.0	857.4
27.5°	856.7	848.7	836.6	827.9	824.6
30°	827.3	817.2	803.9	795.2	791.8
32.5°	793.8	783.1	770.4	759.7	755.0
35°	759.0	749.0	735.0	723.6	718.9
37.5°	723.6	714.2	697.5	687.5	684.1
40°	687.5	676.8	659.4	647.4	644.7
42.5°	649.4	640.0	620.6	610.6	605.9
45°	611.9	599.9	582.5	571.1	568.5
47.5°	573.8	560.4	545.0	532.3	529.0
50°	533.7	521.6	503.6	492.2	487.5
52.5°	494.2	483.5	465.5	452.8	449.4
55°	455.4	443.4	428.0	416.0	410.0
57.5°	414.6	405.3	389.2	377.9	373.2
60°	376.5	365.8	350.4	341.1	336.4
62.5°	337.7	327.0	314.3	304.3	300.3
65°	300.3	292.3	277.5	266.8	265.5
67.5°	262.8	256.1	243.4	232.7	233.4
70°	226.0	220.0	209.3	202.6	206.6
72.5°	191.3	187.9	175.9	171.2	173.2
75°	153.8	151.8	146.5	137.8	135.8
77.5°	122.4	123.7	117.7	107.0	104.3
80°	91.0	94.3	84.9	81.6	78.2
82.5°	62.9	67.5	59.5	56.8	55.5
85°	36.8	38.8	36.8	36.1	36.1
87.5°	15.4	18.1	18.1	18.7	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)