

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: P601269

Luminaire Tested: 14D3X-LP-70-L940

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601269
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-70-L940
Description: 1x4 D3X-LP AT 7000lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

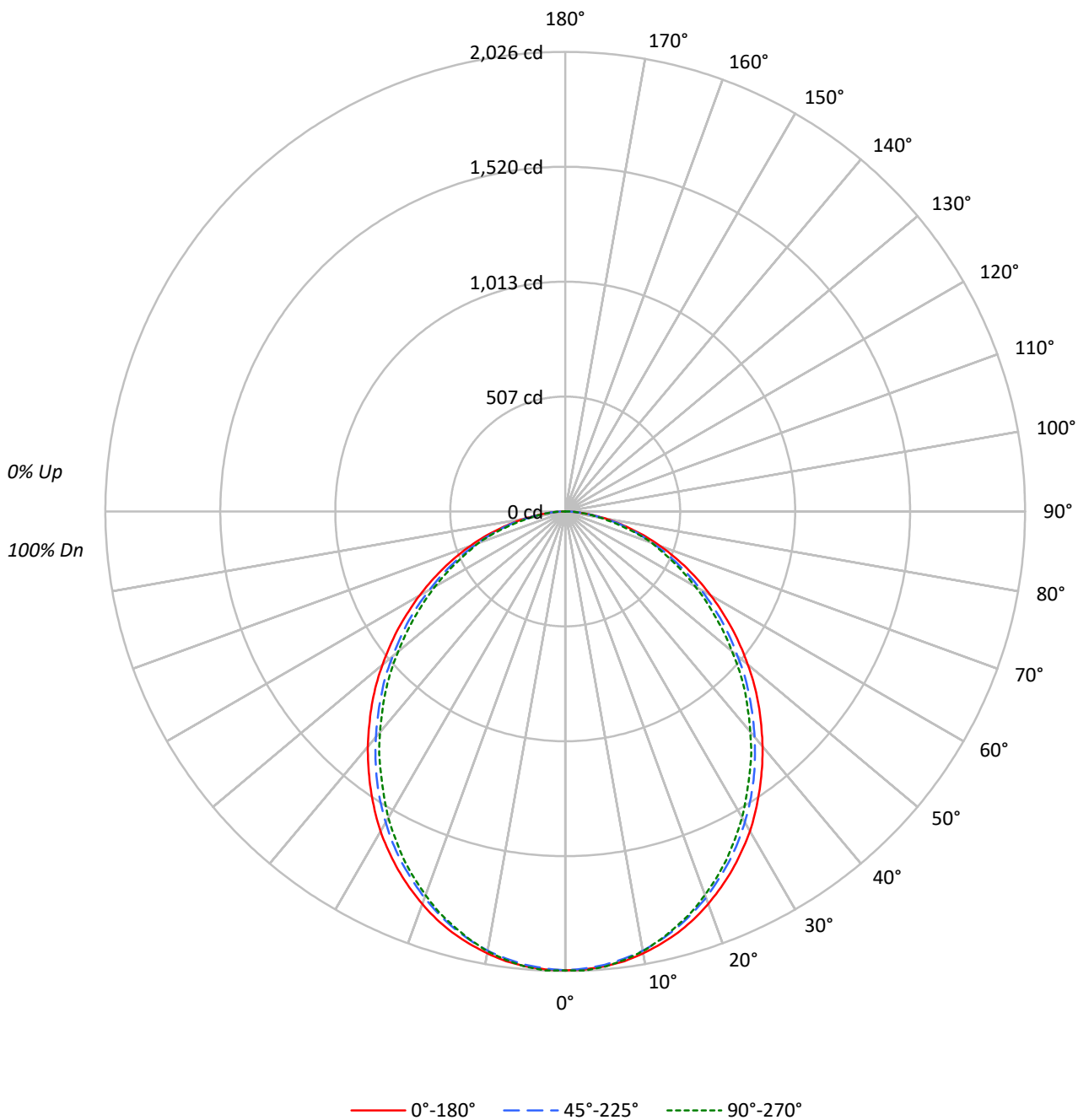
Lumens per Lamp: N/A
Luminaire Lumens: 5004.9 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 71.2
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°	5444	5444	5444
5°	5436	5418	5440
10°	5405	5373	5380
15°	5353	5295	5277
20°	5273	5190	5152
25°	5174	5065	5010
30°	5059	4916	4842
35°	4908	4752	4648
40°	4753	4559	4457
45°	4583	4363	4258
50°	4397	4149	4017
55°	4205	3952	3785
60°	3988	3712	3563
65°	3763	3478	3327
70°	3500	3242	3200
75°	3147	2996	2778
80°	2774	2591	2386
85°	2235	2235	2195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4583 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.7	3.8
10°-20°	536.6	10.7
20°-30°	786.9	15.7
30°-40°	906.4	18.1
40°-50°	889.4	17.8
50°-60°	756.7	15.1
60°-70°	547.1	10.9
70°-80°	305.7	6.1
80°-90°	85.2	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°	1514.2	30.3
0°-40°	2420.7	48.4
0°-60°	4066.8	81.3
0°-90°	5004.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5004.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2023	2023	2023	2023	2023	
5°	2012	2012	2006	2012	2014	191
15°	1922	1915	1901	1898	1894	541
25°	1743	1728	1706	1693	1687	802
35°	1494	1474	1446	1424	1415	934
45°	1204	1181	1146	1124	1119	929
55°	896	873	842	819	807	800
65°	591	575	546	525	522	585
75°	303	299	288	271	267	325
85°	72	76	72	71	71	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2023.0	2023.0	2023.0	2023.0	2023.0
2.5°	2020.4	2020.4	2016.4	2024.3	2025.6
5°	2012.5	2012.5	2005.9	2012.5	2013.8
7.5°	1999.3	1996.7	1988.8	1994.0	1994.0
10°	1978.2	1975.6	1966.4	1967.7	1969.0
12.5°	1951.9	1948.0	1936.1	1934.8	1933.5
15°	1921.6	1915.1	1900.6	1897.9	1894.0
17.5°	1884.8	1875.6	1858.5	1854.5	1851.9
20°	1841.4	1829.5	1812.4	1803.2	1799.2
22.5°	1794.0	1780.8	1759.7	1750.5	1745.3
25°	1742.6	1728.2	1705.8	1692.6	1687.4
27.5°	1686.0	1670.2	1646.6	1629.4	1622.9
30°	1628.1	1608.4	1582.1	1565.0	1558.4
32.5°	1562.3	1541.3	1516.3	1495.2	1486.0
35°	1493.9	1474.1	1446.5	1424.1	1414.9
37.5°	1424.1	1405.7	1372.8	1353.0	1346.5
40°	1353.0	1332.0	1297.8	1274.1	1268.8
42.5°	1278.0	1259.6	1221.4	1201.7	1192.5
45°	1204.3	1180.6	1146.4	1124.0	1118.8
47.5°	1129.3	1103.0	1072.7	1047.7	1041.1
50°	1050.3	1026.6	991.1	968.7	959.5
52.5°	972.7	951.6	916.1	891.1	884.5
55°	896.3	872.6	842.4	818.7	806.8
57.5°	816.0	797.6	766.0	743.6	734.4
60°	741.0	720.0	689.7	671.3	662.0
62.5°	664.7	643.6	618.6	598.9	591.0
65°	591.0	575.2	546.2	525.2	522.5
67.5°	517.3	504.1	479.1	458.0	459.4
70°	444.9	433.0	412.0	398.8	406.7
72.5°	376.4	369.9	346.2	336.9	340.9
75°	302.7	298.8	288.2	271.1	267.2
77.5°	240.9	243.5	231.6	210.6	205.3
80°	179.0	185.6	167.2	160.6	154.0
82.5°	123.7	132.9	117.1	111.9	109.2
85°	72.4	76.3	72.4	71.1	71.1
87.5°	30.3	35.5	35.5	36.9	38.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)