

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: P601181

Luminaire Tested: 24D3X-LP-55-L940

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-55-L940
Description: 2x4 D3X-LP AT 5500LM 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

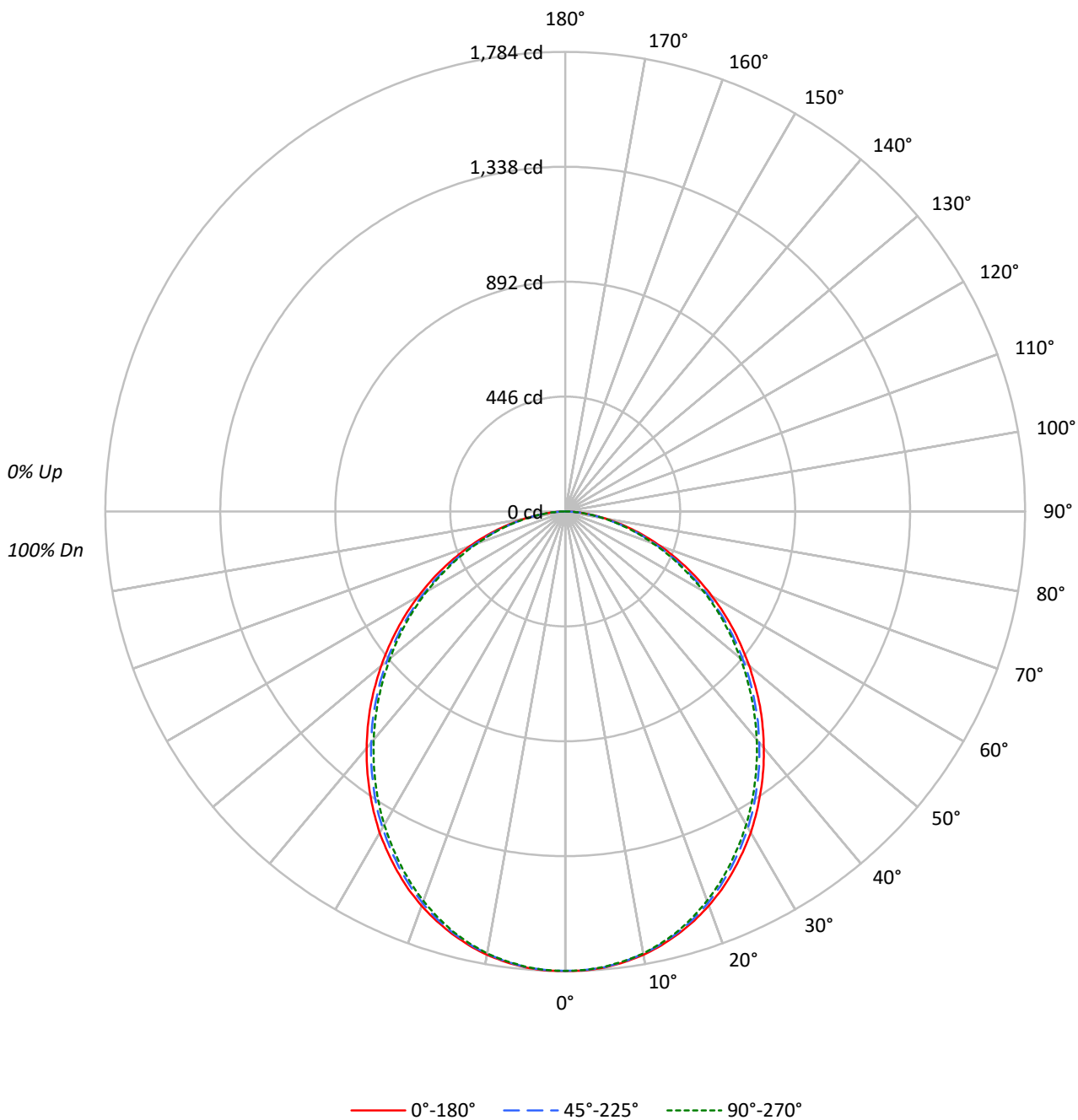
Lumens per Lamp: N/A
Luminaire Lumens: 4497.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.2
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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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	78	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	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	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°	2400	2400	2400
5°	2400	2398	2395
10°	2388	2382	2380
15°	2364	2356	2350
20°	2332	2317	2303
25°	2288	2263	2245
30°	2237	2203	2182
35°	2174	2132	2108
40°	2105	2056	2031
45°	2033	1975	1946
50°	1950	1890	1856
55°	1864	1799	1765
60°	1768	1697	1666
65°	1664	1586	1554
70°	1548	1465	1428
75°	1405	1326	1304
80°	1217	1151	1158
85°	1003	991	926

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2033 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	3.7
10°-20°	476.7	10.6
20°-30°	702.6	15.6
30°-40°	813.3	18.1
40°-50°	803.0	17.9
50°-60°	687.8	15.3
60°-70°	497.2	11.1
70°-80°	274.1	6.1
80°-90°	73.8	1.6
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°	1347.8	30.0
0°-40°	2161.1	48.1
0°-60°	3651.8	81.2
0°-90°	4497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1777	1776	1775	1773	1773	169
15°	1697	1696	1692	1689	1687	478
25°	1541	1537	1524	1517	1512	710
35°	1323	1315	1298	1287	1284	827
45°	1068	1054	1038	1028	1023	823
55°	795	779	767	756	752	710
65°	523	511	498	491	488	518
75°	270	262	255	254	251	287
85°	65	65	64	60	60	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1783.5	1783.5	1783.5	1783.5	1783.5
2.5°	1783.5	1783.5	1781.8	1781.8	1781.8
5°	1776.8	1775.9	1775.1	1773.4	1773.4
7.5°	1764.1	1764.1	1761.6	1761.6	1759.9
10°	1748.0	1746.4	1743.8	1743.8	1742.1
12.5°	1725.2	1723.6	1720.2	1719.3	1716.8
15°	1697.4	1695.7	1691.5	1688.9	1687.2
17.5°	1665.3	1662.8	1657.7	1653.5	1650.1
20°	1629.0	1625.6	1618.0	1612.9	1608.7
22.5°	1587.6	1584.2	1573.2	1567.3	1563.1
25°	1541.2	1536.9	1524.3	1516.7	1512.4
27.5°	1491.3	1486.3	1471.9	1463.5	1459.2
30°	1439.8	1432.2	1417.9	1407.7	1404.3
32.5°	1382.4	1374.8	1360.4	1348.6	1345.2
35°	1323.3	1314.8	1297.9	1287.0	1283.6
37.5°	1262.5	1251.5	1236.3	1225.3	1220.3
40°	1198.3	1187.3	1170.4	1158.6	1156.1
42.5°	1134.1	1120.6	1106.3	1094.4	1089.4
45°	1068.2	1053.9	1037.8	1027.7	1022.6
47.5°	999.0	985.5	971.1	959.3	955.1
50°	931.4	917.1	902.7	891.8	886.7
52.5°	862.2	847.8	834.3	825.0	820.0
55°	794.6	779.4	766.8	755.8	752.4
57.5°	726.2	712.7	698.4	688.2	685.7
60°	657.0	645.2	630.8	621.5	619.0
62.5°	590.3	578.5	564.9	555.7	551.4
65°	522.7	510.9	498.2	490.6	488.1
67.5°	456.9	445.9	434.9	427.3	425.6
70°	393.5	382.5	372.4	365.7	363.1
72.5°	330.2	322.6	312.5	308.2	305.7
75°	270.2	261.8	255.0	254.2	250.8
77.5°	212.0	211.1	200.1	198.4	198.4
80°	157.1	154.5	148.6	146.9	149.5
82.5°	108.1	106.4	103.0	102.2	101.3
85°	65.0	65.0	64.2	60.0	60.0
87.5°	29.6	28.7	27.9	28.7	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)