

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: P601187

Luminaire Tested: 24D3X-LP-60-L940

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601187
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-60-L940
Description: 2x4 D3X-LP AT 6000LM 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

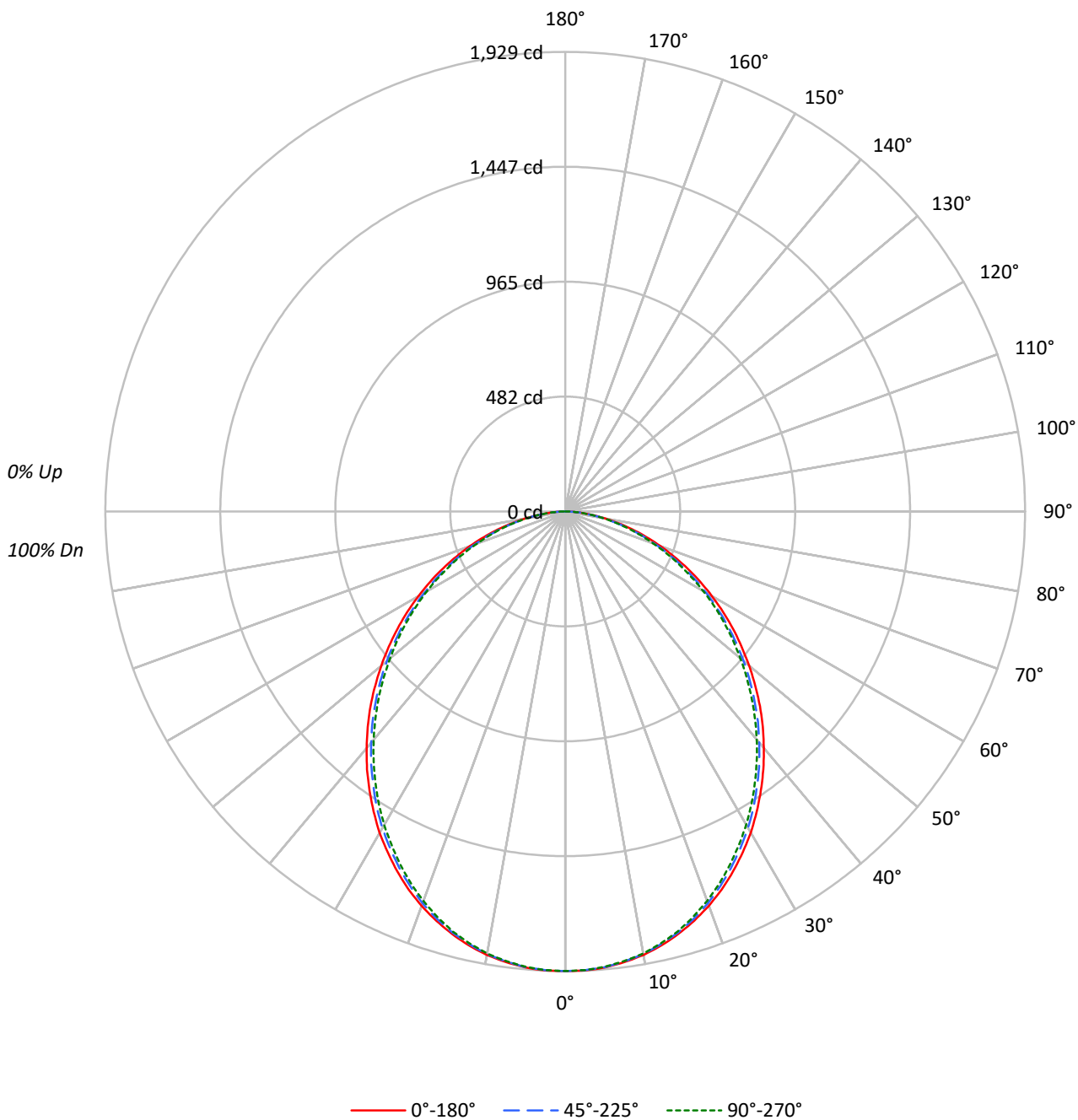
Lumens per Lamp: N/A
Luminaire Lumens: 4863.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.9
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	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	30	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°	2595	2595	2595
5°	2595	2593	2590
10°	2583	2576	2574
15°	2557	2548	2542
20°	2522	2505	2491
25°	2474	2447	2428
30°	2419	2382	2359
35°	2350	2305	2280
40°	2276	2223	2196
45°	2198	2136	2104
50°	2108	2043	2007
55°	2016	1945	1909
60°	1912	1836	1801
65°	1800	1715	1680
70°	1674	1584	1545
75°	1519	1434	1410
80°	1316	1245	1252
85°	1085	1071	1000

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2198 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	3.7
10°-20°	515.5	10.6
20°-30°	759.7	15.6
30°-40°	879.5	18.1
40°-50°	868.3	17.9
50°-60°	743.7	15.3
60°-70°	537.7	11.1
70°-80°	296.4	6.1
80°-90°	79.8	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°	1457.4	30.0
0°-40°	2337.0	48.1
0°-60°	3949.0	81.2
0°-90°	4863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4863.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1929	1929	1929	1929	1929	
5°	1921	1920	1920	1918	1918	182
15°	1836	1834	1829	1826	1825	517
25°	1667	1662	1648	1640	1636	767
35°	1431	1422	1404	1392	1388	895
45°	1155	1140	1122	1111	1106	890
55°	859	843	829	817	814	768
65°	565	552	539	531	528	560
75°	292	283	276	275	271	310
85°	70	70	69	65	65	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1928.7	1928.7	1928.7	1928.7	1928.7
2.5°	1928.7	1928.7	1926.8	1926.8	1926.8
5°	1921.4	1920.4	1919.5	1917.7	1917.7
7.5°	1907.7	1907.7	1904.9	1904.9	1903.1
10°	1890.3	1888.5	1885.7	1885.7	1883.9
12.5°	1865.7	1863.8	1860.2	1859.3	1856.5
15°	1835.5	1833.7	1829.1	1826.4	1824.6
17.5°	1800.8	1798.1	1792.6	1788.0	1784.4
20°	1761.6	1757.9	1749.7	1744.2	1739.6
22.5°	1716.8	1713.2	1701.3	1694.9	1690.3
25°	1666.6	1662.0	1648.3	1640.1	1635.5
27.5°	1612.7	1607.2	1591.7	1582.6	1578.0
30°	1557.0	1548.8	1533.3	1522.3	1518.6
32.5°	1494.9	1486.7	1471.2	1458.4	1454.7
35°	1431.0	1421.8	1403.6	1391.7	1388.1
37.5°	1365.2	1353.4	1336.9	1325.0	1319.6
40°	1295.8	1284.0	1265.7	1252.9	1250.2
42.5°	1226.4	1211.8	1196.3	1183.5	1178.0
45°	1155.2	1139.7	1122.3	1111.4	1105.9
47.5°	1080.3	1065.7	1050.2	1037.4	1032.8
50°	1007.3	991.7	976.2	964.3	958.9
52.5°	932.4	916.8	902.2	892.2	886.7
55°	859.3	842.9	829.2	817.3	813.7
57.5°	785.3	770.7	755.2	744.3	741.5
60°	710.5	697.7	682.2	672.1	669.4
62.5°	638.3	625.5	610.9	600.9	596.3
65°	565.3	552.5	538.8	530.6	527.8
67.5°	494.0	482.2	470.3	462.1	460.3
70°	425.5	413.7	402.7	395.4	392.7
72.5°	357.1	348.8	337.9	333.3	330.6
75°	292.2	283.1	275.8	274.9	271.2
77.5°	229.2	228.3	216.4	214.6	214.6
80°	169.9	167.1	160.7	158.9	161.6
82.5°	116.9	115.1	111.4	110.5	109.6
85°	70.3	70.3	69.4	64.8	64.8
87.5°	32.0	31.0	30.1	31.0	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)