

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: P601172

Luminaire Tested: 24D3X-LP-50-L840

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601172
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-50-L840
Description: 2x4 D3X-LP AT 5000LM 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

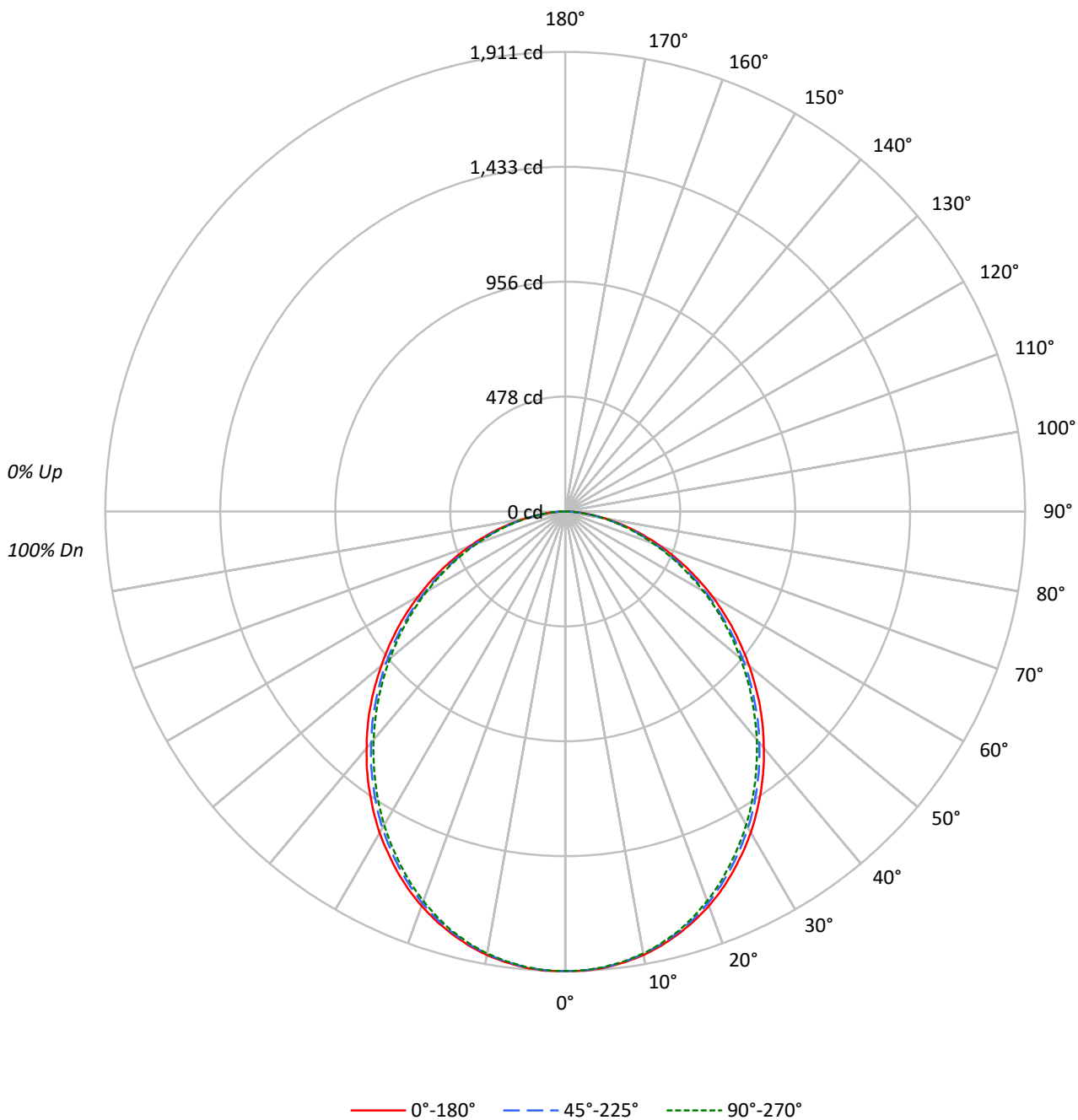
Lumens per Lamp: N/A
Luminaire Lumens: 4819.0 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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	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°	2571	2571	2571
5°	2572	2569	2567
10°	2559	2553	2551
15°	2534	2525	2519
20°	2499	2483	2468
25°	2452	2425	2406
30°	2397	2361	2338
35°	2329	2285	2259
40°	2255	2203	2176
45°	2178	2116	2085
50°	2089	2025	1989
55°	1997	1928	1891
60°	1894	1819	1785
65°	1784	1700	1665
70°	1659	1570	1531
75°	1506	1421	1397
80°	1304	1234	1241
85°	1076	1062	993

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2178 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.5	3.7
10°-20°	510.9	10.6
20°-30°	752.9	15.6
30°-40°	871.6	18.1
40°-50°	860.5	17.9
50°-60°	737.0	15.3
60°-70°	532.9	11.1
70°-80°	293.7	6.1
80°-90°	79.1	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°	1444.3	30.0
0°-40°	2315.8	48.1
0°-60°	3913.3	81.2
0°-90°	4819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4819.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1911	1911	1911	1911	1911	
5°	1904	1903	1902	1900	1900	181
15°	1819	1817	1813	1810	1808	513
25°	1652	1647	1633	1625	1621	760
35°	1418	1409	1391	1379	1376	887
45°	1145	1129	1112	1101	1096	882
55°	852	835	822	810	806	761
65°	560	548	534	526	523	555
75°	290	280	273	272	269	307
85°	70	70	69	64	64	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1911.2	1911.2	1911.2	1911.2	1911.2
2.5°	1911.2	1911.2	1909.4	1909.4	1909.4
5°	1904.0	1903.1	1902.2	1900.4	1900.4
7.5°	1890.4	1890.4	1887.7	1887.7	1885.9
10°	1873.2	1871.4	1868.7	1868.7	1866.9
12.5°	1848.8	1847.0	1843.3	1842.4	1839.7
15°	1818.9	1817.1	1812.6	1809.9	1808.1
17.5°	1784.5	1781.8	1776.4	1771.9	1768.2
20°	1745.6	1742.0	1733.9	1728.4	1723.9
22.5°	1701.3	1697.7	1685.9	1679.6	1675.0
25°	1651.5	1647.0	1633.4	1625.3	1620.7
27.5°	1598.1	1592.7	1577.3	1568.2	1563.7
30°	1542.9	1534.8	1519.4	1508.5	1504.9
32.5°	1481.4	1473.2	1457.8	1445.2	1441.6
35°	1418.0	1409.0	1390.9	1379.1	1375.5
37.5°	1352.9	1341.1	1324.8	1313.1	1307.6
40°	1284.1	1272.3	1254.2	1241.6	1238.9
42.5°	1215.3	1200.8	1185.5	1172.8	1167.4
45°	1144.7	1129.4	1112.2	1101.3	1095.9
47.5°	1070.5	1056.1	1040.7	1028.0	1023.5
50°	998.1	982.8	967.4	955.6	950.2
52.5°	923.9	908.6	894.1	884.1	878.7
55°	851.5	835.3	821.7	809.9	806.3
57.5°	778.2	763.8	748.4	737.5	734.8
60°	704.0	691.4	676.0	666.0	663.3
62.5°	632.5	619.9	605.4	595.4	590.9
65°	560.2	547.5	533.9	525.8	523.1
67.5°	489.6	477.8	466.0	457.9	456.1
70°	421.7	409.9	399.1	391.8	389.1
72.5°	353.8	345.7	334.8	330.3	327.6
75°	289.6	280.5	273.3	272.4	268.8
77.5°	227.1	226.2	214.5	212.7	212.7
80°	168.3	165.6	159.3	157.5	160.2
82.5°	115.8	114.0	110.4	109.5	108.6
85°	69.7	69.7	68.8	64.3	64.3
87.5°	31.7	30.8	29.9	30.8	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)