

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: P601170

Luminaire Tested: 24D3X-LP-50-L830

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601170
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-L830
Description: 2x4 D3X-LP AT 5000LM 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

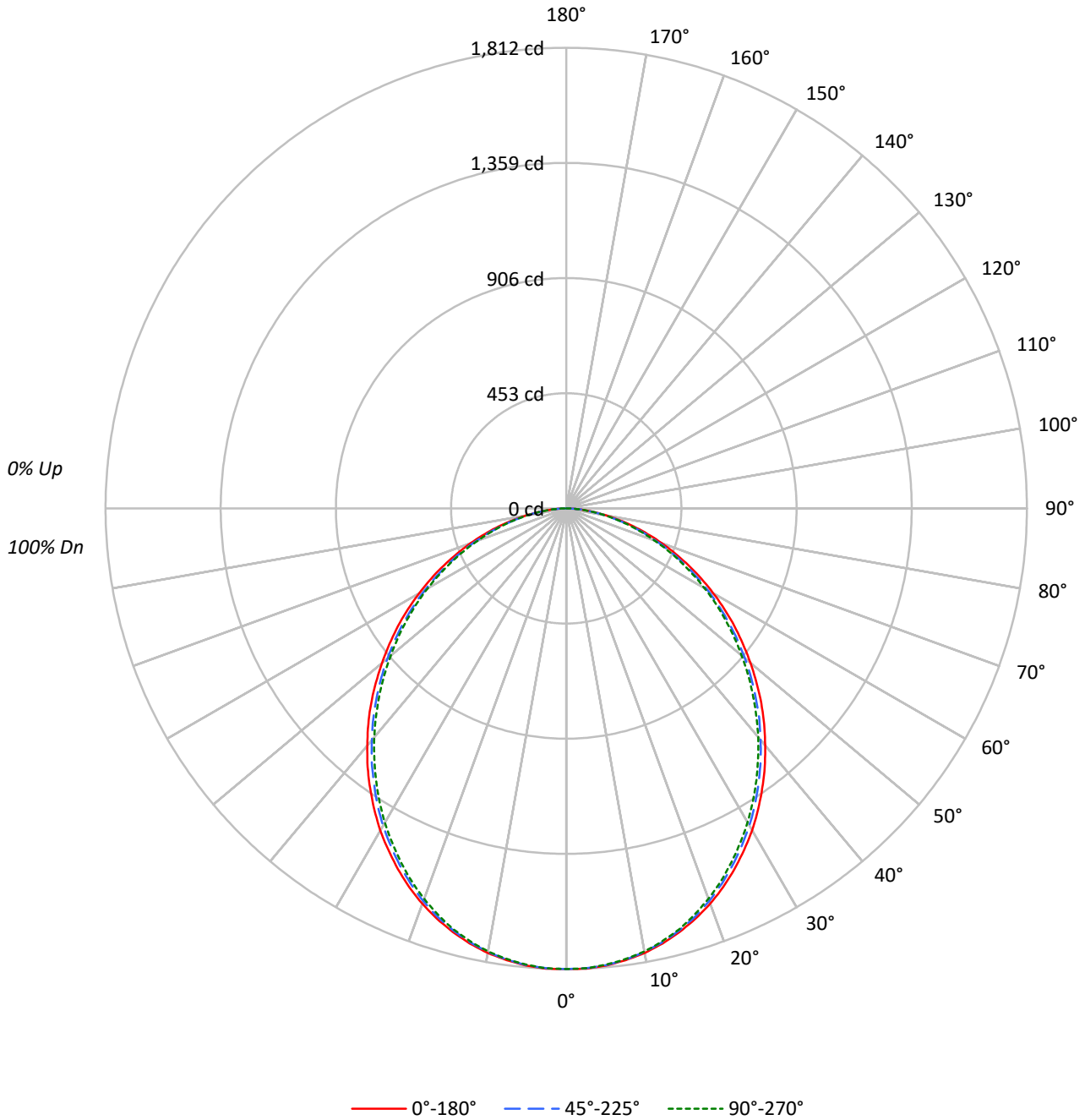
Lumens per Lamp: N/A
Luminaire Lumens: 4569.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	2438	2438	2438
5°	2438	2436	2434
10°	2426	2421	2418
15°	2402	2394	2388
20°	2370	2354	2340
25°	2325	2299	2281
30°	2273	2238	2217
35°	2208	2166	2142
40°	2138	2089	2063
45°	2065	2007	1977
50°	1981	1920	1886
55°	1894	1828	1793
60°	1796	1725	1692
65°	1691	1612	1579
70°	1573	1489	1451
75°	1428	1347	1325
80°	1237	1170	1177
85°	1020	1007	940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2065 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	3.7
10°-20°	484.4	10.6
20°-30°	713.8	15.6
30°-40°	826.3	18.1
40°-50°	815.8	17.9
50°-60°	698.8	15.3
60°-70°	505.2	11.1
70°-80°	278.5	6.1
80°-90°	75.0	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°	1369.3	30.0
0°-40°	2195.7	48.1
0°-60°	3710.3	81.2
0°-90°	4569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4569.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1805	1804	1804	1802	1802	171
15°	1725	1723	1718	1716	1714	486
25°	1566	1562	1549	1541	1537	721
35°	1344	1336	1319	1308	1304	841
45°	1085	1071	1054	1044	1039	836
55°	807	792	779	768	764	722
65°	531	519	506	498	496	527
75°	275	266	259	258	255	291
85°	66	66	65	61	61	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1812.1	1812.1	1812.1	1812.1	1812.1
2.5°	1812.1	1812.1	1810.4	1810.4	1810.4
5°	1805.2	1804.3	1803.5	1801.8	1801.8
7.5°	1792.3	1792.3	1789.8	1789.8	1788.0
10°	1776.0	1774.3	1771.7	1771.7	1770.0
12.5°	1752.9	1751.2	1747.7	1746.9	1744.3
15°	1724.6	1722.8	1718.5	1716.0	1714.3
17.5°	1691.9	1689.4	1684.2	1679.9	1676.5
20°	1655.1	1651.6	1643.9	1638.8	1634.5
22.5°	1613.0	1609.6	1598.4	1592.4	1588.1
25°	1565.8	1561.5	1548.7	1540.9	1536.7
27.5°	1515.2	1510.1	1495.5	1486.9	1482.6
30°	1462.9	1455.1	1440.6	1430.3	1426.8
32.5°	1404.5	1396.8	1382.2	1370.2	1366.8
35°	1344.5	1335.9	1318.7	1307.6	1304.1
37.5°	1282.7	1271.5	1256.1	1244.9	1239.8
40°	1217.5	1206.3	1189.2	1177.2	1174.6
42.5°	1152.3	1138.5	1124.0	1112.0	1106.8
45°	1085.4	1070.8	1054.5	1044.2	1039.0
47.5°	1015.0	1001.3	986.7	974.7	970.4
50°	946.4	931.8	917.2	906.0	900.9
52.5°	876.0	861.4	847.7	838.3	833.1
55°	807.4	791.9	779.1	767.9	764.5
57.5°	737.9	724.1	709.6	699.3	696.7
60°	667.5	655.5	640.9	631.5	628.9
62.5°	599.7	587.7	574.0	564.6	560.3
65°	531.1	519.1	506.2	498.5	495.9
67.5°	464.2	453.0	441.9	434.1	432.4
70°	399.8	388.7	378.4	371.5	368.9
72.5°	335.5	327.8	317.5	313.2	310.6
75°	274.6	266.0	259.1	258.3	254.8
77.5°	215.4	214.5	203.3	201.6	201.6
80°	159.6	157.0	151.0	149.3	151.9
82.5°	109.8	108.1	104.7	103.8	103.0
85°	66.1	66.1	65.2	60.9	60.9
87.5°	30.0	29.2	28.3	29.2	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)