

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: P995616

Luminaire Tested: 24D3X-LP-WD-50-L840.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 12/21/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-WD-50-L840.ies
Description: 2x4 D3X-LP AT 5000LM 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

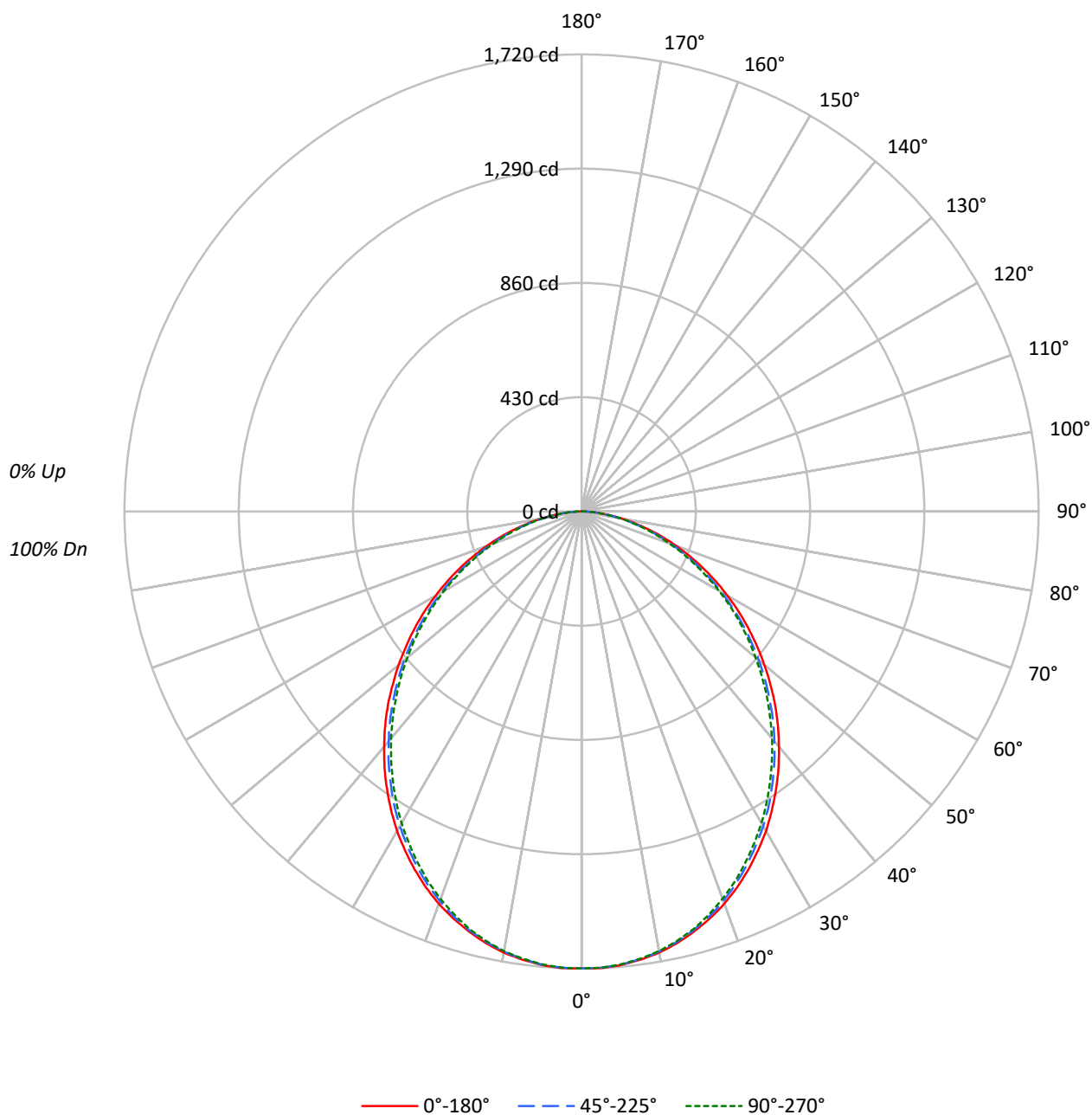
Lumens per Lamp: N/A
Luminaire Lumens: 4337.1 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71		71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60		60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35		35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32		32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2314	2314	2314
5°	2314	2312	2310
10°	2303	2298	2296
15°	2280	2272	2267
20°	2250	2234	2221
25°	2207	2182	2166
30°	2157	2124	2104
35°	2096	2056	2033
40°	2030	1983	1958
45°	1960	1905	1877
50°	1880	1822	1790
55°	1798	1735	1702
60°	1705	1637	1607
65°	1605	1530	1499
70°	1493	1413	1378
75°	1355	1279	1258
80°	1174	1110	1117
85°	968	956	892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1960 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	3.7
10°-20°	459.8	10.6
20°-30°	677.6	15.6
30°-40°	784.4	18.1
40°-50°	774.4	17.9
50°-60°	663.3	15.3
60°-70°	479.6	11.1
70°-80°	264.4	6.1
80°-90°	71.2	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°	1299.8	30.0
0°-40°	2084.2	48.1
0°-60°	3522.0	81.2
0°-90°	4337.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4337.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1720	1720	1720	1720	1720	
5°	1714	1713	1712	1710	1710	163
15°	1637	1635	1631	1629	1627	461
25°	1486	1482	1470	1463	1459	684
35°	1276	1268	1252	1241	1238	798
45°	1030	1016	1001	991	986	794
55°	766	752	740	729	726	685
65°	504	493	480	473	471	500
75°	261	252	246	245	242	277
85°	63	63	62	58	58	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1720.1	1720.1	1720.1	1720.1	1720.1
2.5°	1720.1	1720.1	1718.5	1718.5	1718.5
5°	1713.6	1712.8	1712.0	1710.3	1710.3
7.5°	1701.4	1701.4	1698.9	1698.9	1697.3
10°	1685.9	1684.3	1681.8	1681.8	1680.2
12.5°	1663.9	1662.3	1659.0	1658.2	1655.8
15°	1637.0	1635.4	1631.3	1628.9	1627.2
17.5°	1606.1	1603.6	1598.7	1594.7	1591.4
20°	1571.1	1567.8	1560.5	1555.6	1551.5
22.5°	1531.1	1527.9	1517.3	1511.6	1507.5
25°	1486.4	1482.3	1470.1	1462.7	1458.7
27.5°	1438.3	1433.4	1419.6	1411.4	1407.4
30°	1388.6	1381.3	1367.4	1357.7	1354.4
32.5°	1333.2	1325.9	1312.1	1300.7	1297.4
35°	1276.2	1268.1	1251.8	1241.2	1237.9
37.5°	1217.6	1207.0	1192.3	1181.8	1176.9
40°	1155.7	1145.1	1128.8	1117.4	1115.0
42.5°	1093.8	1080.8	1066.9	1055.5	1050.6
45°	1030.3	1016.4	1000.9	991.2	986.3
47.5°	963.5	950.5	936.6	925.2	921.1
50°	898.3	884.5	870.6	860.0	855.2
52.5°	831.5	817.7	804.7	795.7	790.8
55°	766.4	751.7	739.5	728.9	725.7
57.5°	700.4	687.4	673.5	663.8	661.3
60°	633.6	622.2	608.4	599.4	597.0
62.5°	569.3	557.9	544.9	535.9	531.8
65°	504.1	492.7	480.5	473.2	470.7
67.5°	440.6	430.0	419.4	412.1	410.5
70°	379.5	368.9	359.2	352.7	350.2
72.5°	318.4	311.1	301.3	297.3	294.8
75°	260.6	252.5	246.0	245.1	241.9
77.5°	204.4	203.6	193.0	191.4	191.4
80°	151.5	149.0	143.3	141.7	144.2
82.5°	104.2	102.6	99.4	98.5	97.7
85°	62.7	62.7	61.9	57.8	57.8
87.5°	28.5	27.7	26.9	27.7	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)