

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: P995598

Luminaire Tested: 24D3X-LP-WD-40-L840.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995598
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-40-L840.ies
Description: 2x4 D3X-LP AT 4000LM 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

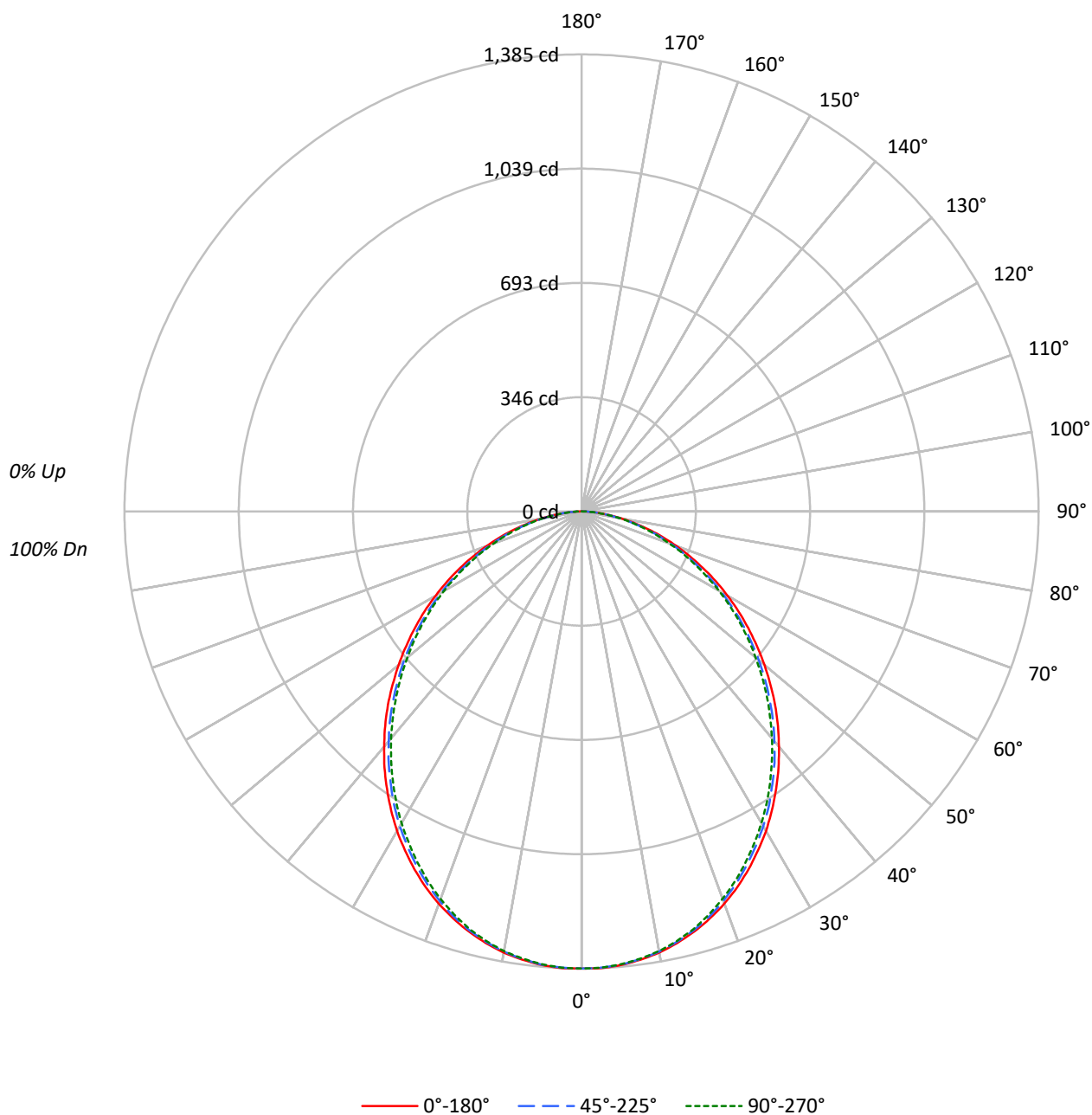
Lumens per Lamp: N/A
Luminaire Lumens: 3492.9 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.4
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°	1864	1864	1864
5°	1864	1862	1860
10°	1855	1851	1849
15°	1836	1830	1825
20°	1812	1799	1789
25°	1777	1758	1744
30°	1737	1711	1695
35°	1688	1656	1638
40°	1635	1597	1577
45°	1579	1534	1511
50°	1514	1468	1442
55°	1448	1397	1371
60°	1373	1319	1294
65°	1293	1232	1207
70°	1203	1138	1109
75°	1091	1030	1013
80°	945	894	900
85°	780	769	719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1579 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	3.7
10°-20°	370.3	10.6
20°-30°	545.7	15.6
30°-40°	631.7	18.1
40°-50°	623.7	17.9
50°-60°	534.2	15.3
60°-70°	386.2	11.1
70°-80°	212.9	6.1
80°-90°	57.3	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°	1046.8	30.0
0°-40°	1678.6	48.1
0°-60°	2836.4	81.2
0°-90°	3492.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3492.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1380	1379	1379	1377	1377	131
15°	1318	1317	1314	1312	1310	372
25°	1197	1194	1184	1178	1175	551
35°	1028	1021	1008	1000	997	643
45°	830	819	806	798	794	639
55°	617	605	596	587	584	552
65°	406	397	387	381	379	403
75°	210	203	198	197	195	223
85°	50	50	50	47	47	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1385.3	1385.3	1385.3	1385.3	1385.3
2.5°	1385.3	1385.3	1384.0	1384.0	1384.0
5°	1380.0	1379.4	1378.7	1377.4	1377.4
7.5°	1370.2	1370.2	1368.2	1368.2	1366.9
10°	1357.7	1356.4	1354.5	1354.5	1353.1
12.5°	1340.0	1338.7	1336.1	1335.4	1333.5
15°	1318.4	1317.1	1313.8	1311.8	1310.5
17.5°	1293.5	1291.5	1287.6	1284.3	1281.7
20°	1265.3	1262.6	1256.7	1252.8	1249.5
22.5°	1233.1	1230.5	1222.0	1217.4	1214.1
25°	1197.0	1193.8	1183.9	1178.0	1174.7
27.5°	1158.3	1154.4	1143.3	1136.7	1133.4
30°	1118.3	1112.4	1101.3	1093.4	1090.8
32.5°	1073.7	1067.8	1056.7	1047.5	1044.9
35°	1027.8	1021.3	1008.1	999.6	997.0
37.5°	980.6	972.1	960.3	951.7	947.8
40°	930.7	922.2	909.1	899.9	897.9
42.5°	880.9	870.4	859.2	850.1	846.1
45°	829.7	818.6	806.1	798.2	794.3
47.5°	775.9	765.4	754.3	745.1	741.8
50°	723.5	712.3	701.2	692.6	688.7
52.5°	669.7	658.5	648.0	640.8	636.9
55°	617.2	605.4	595.6	587.0	584.4
57.5°	564.1	553.6	542.4	534.6	532.6
60°	510.3	501.1	490.0	482.8	480.8
62.5°	458.5	449.3	438.8	431.6	428.3
65°	406.0	396.8	387.0	381.1	379.1
67.5°	354.8	346.3	337.8	331.9	330.6
70°	305.7	297.1	289.3	284.0	282.0
72.5°	256.5	250.6	242.7	239.4	237.4
75°	209.9	203.3	198.1	197.4	194.8
77.5°	164.6	164.0	155.5	154.1	154.1
80°	122.0	120.0	115.4	114.1	116.1
82.5°	84.0	82.6	80.0	79.4	78.7
85°	50.5	50.5	49.8	46.6	46.6
87.5°	23.0	22.3	21.6	22.3	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)