

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: P#

Luminaire Tested: 24D3X-LP-40-L950.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P#
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-40-L950.ies
Description: 2x4 D3X-LP AT 4000LM 5000K 90CRI
Light Source: -
Ballast/Driver: -

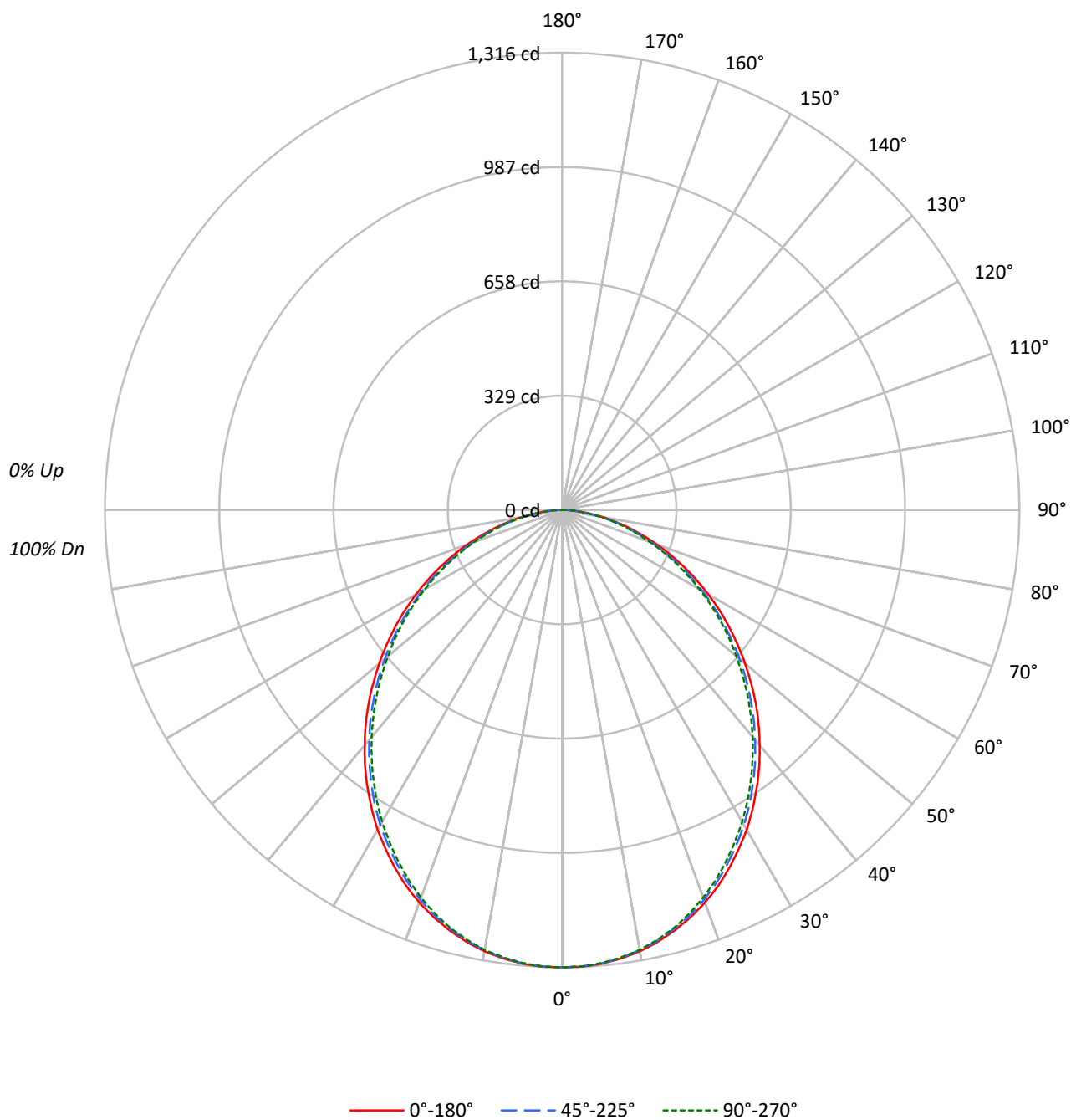
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3318.2 lumens
Efficiency: N/A
Efficacy: 112.9 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					10
RW	70	50	30	10	70	50	30	10	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	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	87	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	73	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	63	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	33	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1771	1771	1771
5°	1771	1769	1767
10°	1762	1758	1756
15°	1745	1739	1734
20°	1721	1709	1700
25°	1688	1670	1657
30°	1651	1625	1610
35°	1604	1573	1556
40°	1553	1517	1498
45°	1500	1457	1436
50°	1439	1394	1370
55°	1375	1327	1302
60°	1305	1253	1229
65°	1228	1170	1147
70°	1142	1081	1054
75°	1037	978	962
80°	898	850	855
85°	741	732	682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1500 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	3.7
10°-20°	351.8	10.6
20°-30°	518.4	15.6
30°-40°	600.1	18.1
40°-50°	592.5	17.9
50°-60°	507.5	15.3
60°-70°	366.9	11.1
70°-80°	202.3	6.1
80°-90°	54.5	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°	994.5	30.0
0°-40°	1594.6	48.1
0°-60°	2694.6	81.2
0°-90°	3318.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3318.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1311	1310	1310	1308	1308	124
15°	1252	1251	1248	1246	1245	353
25°	1137	1134	1125	1119	1116	524
35°	976	970	958	950	947	611
45°	788	778	766	758	755	607
55°	586	575	566	558	555	524
65°	386	377	368	362	360	382
75°	199	193	188	188	185	212
85°	48	48	47	44	44	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.0	1316.0	1316.0	1316.0	1316.0
2.5°	1316.0	1316.0	1314.8	1314.8	1314.8
5°	1311.0	1310.4	1309.8	1308.5	1308.5
7.5°	1301.7	1301.7	1299.8	1299.8	1298.6
10°	1289.8	1288.6	1286.7	1286.7	1285.5
12.5°	1273.0	1271.8	1269.3	1268.7	1266.8
15°	1252.5	1251.2	1248.1	1246.2	1245.0
17.5°	1228.8	1226.9	1223.2	1220.1	1217.6
20°	1202.0	1199.5	1193.9	1190.1	1187.0
22.5°	1171.5	1169.0	1160.9	1156.5	1153.4
25°	1137.2	1134.1	1124.7	1119.1	1116.0
27.5°	1100.4	1096.7	1086.1	1079.9	1076.7
30°	1062.4	1056.8	1046.2	1038.7	1036.2
32.5°	1020.0	1014.4	1003.8	995.1	992.6
35°	976.4	970.2	957.7	949.6	947.1
37.5°	931.6	923.5	912.2	904.1	900.4
40°	884.2	876.1	863.6	854.9	853.0
42.5°	836.8	826.9	816.3	807.6	803.8
45°	788.2	777.6	765.8	758.3	754.6
47.5°	737.1	727.2	716.6	707.9	704.7
50°	687.3	676.7	666.1	658.0	654.3
52.5°	636.2	625.6	615.6	608.8	605.0
55°	586.3	575.1	565.8	557.7	555.2
57.5°	535.9	525.9	515.3	507.8	506.0
60°	484.8	476.1	465.5	458.6	456.7
62.5°	435.6	426.8	416.9	410.0	406.9
65°	385.7	377.0	367.6	362.0	360.2
67.5°	337.1	329.0	320.9	315.3	314.0
70°	290.4	282.3	274.8	269.8	267.9
72.5°	243.6	238.0	230.6	227.4	225.6
75°	199.4	193.2	188.2	187.6	185.1
77.5°	156.4	155.8	147.7	146.4	146.4
80°	115.9	114.0	109.7	108.4	110.3
82.5°	79.8	78.5	76.0	75.4	74.8
85°	48.0	48.0	47.4	44.2	44.2
87.5°	21.8	21.2	20.6	21.2	23.1
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.1	14.6	13.4	15.0	15.3	12.8	14.4	13.1	14.7	15.0
	3H	14.7	16.2	15.1	16.5	16.9	14.4	15.8	14.8	16.2	16.5
	4H	15.4	16.7	15.8	17.1	17.4	15.0	16.4	15.4	16.7	17.1
	6H	15.8	17.1	16.2	17.4	17.8	15.4	16.7	15.9	17.1	17.5
	8H	15.9	17.1	16.4	17.5	17.9	15.6	16.8	16.0	17.2	17.6
	12H	16.0	17.2	16.4	17.5	18.0	15.7	16.8	16.1	17.2	17.6
4H	2H	13.6	15.0	14.0	15.3	15.7	13.4	14.7	13.8	15.1	15.5
	3H	15.5	16.6	15.9	17.0	17.4	15.2	16.4	15.6	16.8	17.2
	4H	16.2	17.3	16.7	17.7	18.1	15.9	17.0	16.4	17.4	17.8
	6H	16.8	17.7	17.3	18.1	18.6	16.5	17.4	17.0	17.8	18.3
	8H	17.0	17.8	17.4	18.3	18.7	16.7	17.5	17.1	18.0	18.4
	12H	17.1	17.9	17.6	18.3	18.8	16.8	17.5	17.3	18.0	18.5
8H	4H	16.5	17.3	17.0	17.8	18.2	16.2	17.1	16.7	17.5	18.0
	6H	17.2	17.9	17.7	18.4	18.8	16.9	17.6	17.4	18.1	18.6
	8H	17.4	18.0	17.9	18.5	19.0	17.1	17.8	17.6	18.3	18.8
	12H	17.6	18.2	18.1	18.7	19.2	17.3	17.9	17.8	18.4	18.9
12H	4H	16.5	17.3	17.0	17.7	18.2	16.3	17.0	16.7	17.5	18.0
	6H	17.2	17.9	17.7	18.3	18.9	17.0	17.6	17.5	18.0	18.6
	8H	17.5	18.1	18.0	18.6	19.1	17.2	17.8	17.7	18.3	18.8



(END OF REPORT)