

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: P995600

Luminaire Tested: 24D3X-LP-WD-40-L927.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995600
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-L927.ies
Description: 2x4 D3X-LP AT 4000LM 2700K 90CRI
Light Source: -
Ballast/Driver: -

Summary

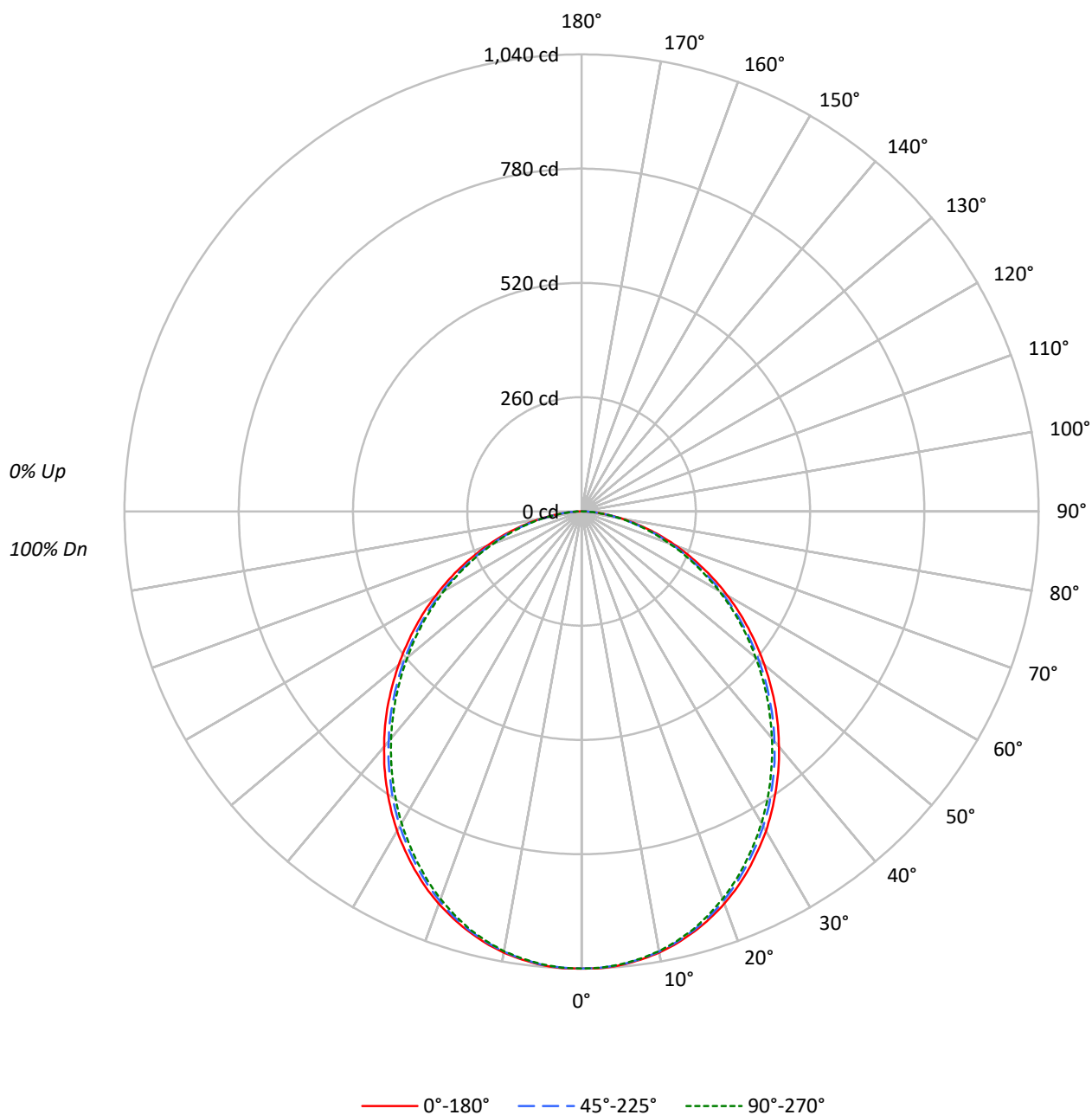
Lumens per Lamp: N/A
Luminaire Lumens: 2622.9 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1400	1400	1400
5°	1400	1398	1397
10°	1393	1390	1388
15°	1379	1374	1371
20°	1360	1351	1343
25°	1334	1320	1310
30°	1305	1285	1273
35°	1268	1243	1230
40°	1228	1199	1184
45°	1186	1152	1135
50°	1137	1102	1083
55°	1087	1049	1030
60°	1031	990	971
65°	971	925	906
70°	903	854	833
75°	819	773	761
80°	710	672	676
85°	585	577	540

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1186 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	3.7
10°-20°	278.1	10.6
20°-30°	409.8	15.6
30°-40°	474.4	18.1
40°-50°	468.3	17.9
50°-60°	401.1	15.3
60°-70°	290.0	11.1
70°-80°	159.9	6.1
80°-90°	43.0	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°	786.1	30.0
0°-40°	1260.5	48.1
0°-60°	2130.0	81.2
0°-90°	2622.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2622.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1036	1036	1035	1034	1034	98
15°	990	989	987	985	984	279
25°	899	896	889	885	882	414
35°	772	767	757	751	749	483
45°	623	615	605	599	596	480
55°	464	455	447	441	439	414
65°	305	298	291	286	285	302
75°	158	153	149	148	146	167
85°	38	38	37	35	35	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1040.3	1040.3	1040.3	1040.3	1040.3
2.5°	1040.3	1040.3	1039.3	1039.3	1039.3
5°	1036.3	1035.8	1035.3	1034.3	1034.3
7.5°	1028.9	1028.9	1027.4	1027.4	1026.5
10°	1019.6	1018.6	1017.1	1017.1	1016.1
12.5°	1006.3	1005.3	1003.3	1002.8	1001.3
15°	990.0	989.0	986.6	985.1	984.1
17.5°	971.3	969.8	966.9	964.4	962.4
20°	950.1	948.1	943.7	940.8	938.3
22.5°	926.0	924.0	917.6	914.2	911.7
25°	898.9	896.4	889.0	884.6	882.1
27.5°	869.8	866.9	858.5	853.6	851.1
30°	839.8	835.4	827.0	821.1	819.1
32.5°	806.3	801.9	793.5	786.6	784.6
35°	771.8	766.9	757.0	750.6	748.7
37.5°	736.4	730.0	721.1	714.7	711.7
40°	698.9	692.5	682.7	675.8	674.3
42.5°	661.5	653.6	645.2	638.3	635.4
45°	623.1	614.7	605.3	599.4	596.5
47.5°	582.7	574.8	566.4	559.5	557.1
50°	543.3	534.9	526.5	520.1	517.2
52.5°	502.9	494.5	486.6	481.2	478.3
55°	463.5	454.6	447.2	440.8	438.9
57.5°	423.6	415.7	407.3	401.4	399.9
60°	383.2	376.3	367.9	362.5	361.0
62.5°	344.3	337.4	329.5	324.1	321.6
65°	304.9	298.0	290.6	286.2	284.7
67.5°	266.5	260.1	253.7	249.2	248.2
70°	229.5	223.1	217.2	213.3	211.8
72.5°	192.6	188.2	182.2	179.8	178.3
75°	157.6	152.7	148.7	148.3	146.3
77.5°	123.6	123.1	116.7	115.7	115.7
80°	91.6	90.1	86.7	85.7	87.2
82.5°	63.0	62.1	60.1	59.6	59.1
85°	37.9	37.9	37.4	35.0	35.0
87.5°	17.2	16.7	16.3	16.7	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)