

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: P995524

Luminaire Tested: 22D3X-LP-WD-45-L830.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 12/20/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-WD-45-L830.ies
Description: 2x2 D3X-LP AT 4500LM 3000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

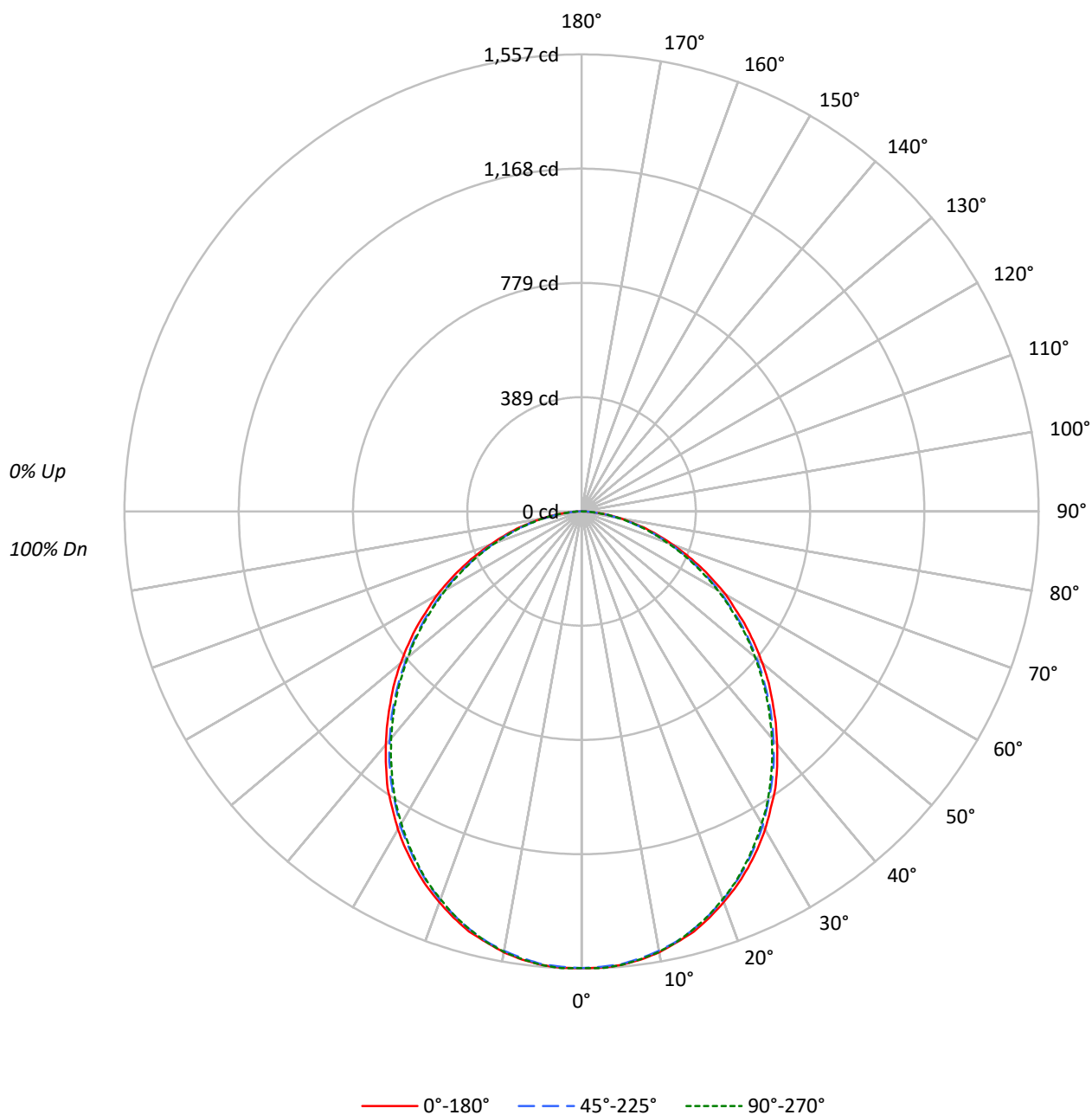
Lumens per Lamp: N/A
Luminaire Lumens: 3888.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71		71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45		45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36		36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32		32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	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°	4187	4187	4187
5°	4190	4182	4190
10°	4167	4154	4162
15°	4127	4106	4106
20°	4056	4034	4025
25°	3980	3943	3929
30°	3886	3838	3814
35°	3782	3711	3686
40°	3642	3571	3544
45°	3503	3420	3391
50°	3367	3257	3231
55°	3214	3097	3054
60°	3053	2919	2877
65°	2842	2704	2674
70°	2597	2500	2438
75°	2368	2224	2240
80°	2041	1922	1945
85°	1578	1531	1436

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	3.8
10°-20°	415.6	10.7
20°-30°	612.1	15.7
30°-40°	708.0	18.2
40°-50°	696.1	17.9
50°-60°	593.2	15.3
60°-70°	425.0	10.9
70°-80°	230.9	5.9
80°-90°	60.2	1.5
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°	1174.6	30.2
0°-40°	1882.6	48.4
0°-60°	3171.9	81.6
0°-90°	3888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3888.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1556	1556	1556	1556	1556	
5°	1551	1548	1548	1548	1551	147
15°	1482	1475	1474	1472	1474	417
25°	1340	1334	1328	1325	1323	617
35°	1151	1142	1130	1124	1122	718
45°	920	914	899	891	891	711
55°	685	673	660	652	651	612
65°	446	437	425	420	420	442
75°	228	220	214	211	215	241
85°	51	51	50	48	46	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1555.9	1555.9	1555.9	1555.9	1555.9
2.5°	1555.9	1554.3	1552.8	1554.3	1557.4
5°	1551.2	1548.1	1548.1	1548.1	1551.2
7.5°	1540.4	1537.3	1535.7	1537.3	1538.8
10°	1524.9	1521.8	1520.2	1521.8	1523.3
12.5°	1503.2	1501.6	1500.1	1500.1	1501.6
15°	1481.5	1475.3	1473.7	1472.2	1473.7
17.5°	1450.5	1449.0	1442.8	1442.8	1442.8
20°	1416.4	1413.3	1408.7	1405.6	1405.6
22.5°	1380.8	1377.7	1369.9	1366.8	1368.4
25°	1340.5	1334.3	1328.1	1325.0	1323.4
27.5°	1297.1	1290.9	1281.6	1276.9	1276.9
30°	1250.6	1245.9	1235.1	1228.9	1227.3
32.5°	1199.5	1196.4	1180.9	1177.8	1177.8
35°	1151.4	1142.1	1129.7	1123.5	1122.0
37.5°	1094.1	1087.9	1075.5	1067.7	1066.2
40°	1036.7	1029.0	1016.6	1010.4	1008.8
42.5°	979.4	971.7	959.3	951.5	950.0
45°	920.5	914.3	898.8	891.1	891.1
47.5°	864.7	852.3	838.4	832.2	830.6
50°	804.3	793.4	777.9	771.7	771.7
52.5°	743.8	736.1	719.1	716.0	712.9
55°	685.0	672.6	660.2	652.4	650.9
57.5°	621.4	610.6	598.2	592.0	592.0
60°	567.2	553.2	542.4	534.6	534.6
62.5°	505.2	492.8	482.0	477.3	475.8
65°	446.3	437.0	424.6	420.0	420.0
67.5°	387.4	379.7	368.8	364.2	365.7
70°	330.1	325.4	317.7	311.5	309.9
72.5°	277.4	271.2	263.4	261.9	261.9
75°	227.8	220.1	213.9	210.8	215.4
77.5°	176.7	172.0	168.9	167.4	168.9
80°	131.7	125.5	124.0	125.5	125.5
82.5°	91.4	88.3	86.8	86.8	86.8
85°	51.1	51.1	49.6	48.0	46.5
87.5°	20.1	20.1	21.7	21.7	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)