

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: P995610

Luminaire Tested: 24D3X-LP-WD-45-L930.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995610
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-45-L930.ies
Description: 2x4 D3X-LP AT 4500LM 3000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

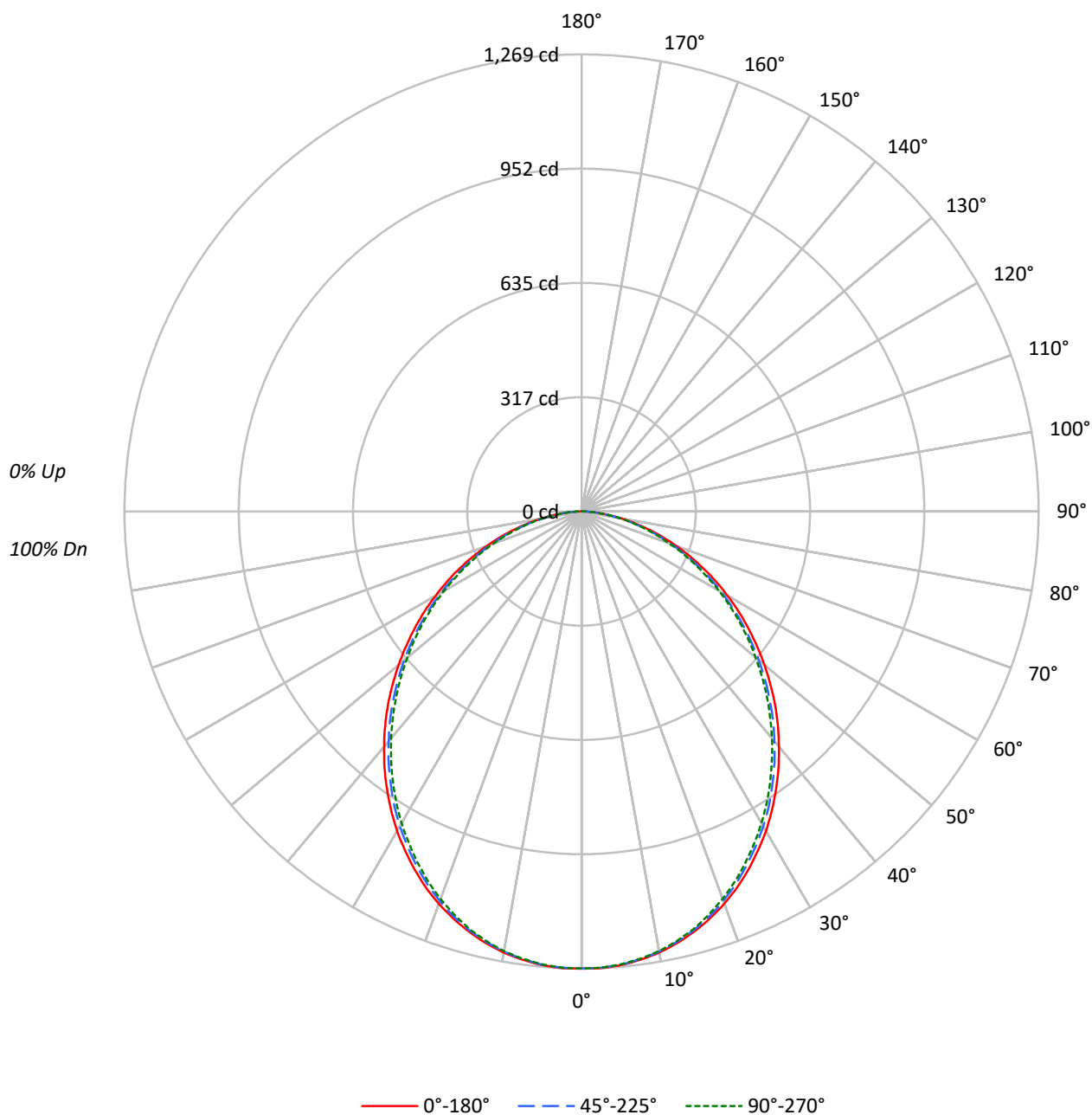
Lumens per Lamp: N/A
Luminaire Lumens: 3200.4 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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	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°	1708	1708	1708
5°	1708	1706	1705
10°	1700	1696	1694
15°	1683	1677	1673
20°	1660	1649	1639
25°	1628	1610	1598
30°	1592	1568	1553
35°	1547	1517	1500
40°	1498	1463	1445
45°	1447	1405	1385
50°	1388	1345	1321
55°	1327	1280	1256
60°	1258	1208	1185
65°	1184	1129	1106
70°	1102	1042	1017
75°	1000	944	928
80°	866	820	824
85°	715	706	659

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1447 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	3.7
10°-20°	339.3	10.6
20°-30°	500.0	15.6
30°-40°	578.8	18.1
40°-50°	571.4	17.9
50°-60°	489.5	15.3
60°-70°	353.9	11.1
70°-80°	195.1	6.1
80°-90°	52.5	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°	959.2	30.0
0°-40°	1538.0	48.1
0°-60°	2598.9	81.2
0°-90°	3200.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3200.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1264	1264	1263	1262	1262	120
15°	1208	1207	1204	1202	1201	341
25°	1097	1094	1085	1079	1076	505
35°	942	936	924	916	914	589
45°	760	750	739	731	728	586
55°	566	555	546	538	536	505
65°	372	364	355	349	347	369
75°	192	186	182	181	178	204
85°	46	46	46	43	43	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.3	1269.3	1269.3	1269.3	1269.3
2.5°	1269.3	1269.3	1268.1	1268.1	1268.1
5°	1264.5	1263.9	1263.3	1262.1	1262.1
7.5°	1255.5	1255.5	1253.7	1253.7	1252.5
10°	1244.0	1242.8	1241.0	1241.0	1239.8
12.5°	1227.8	1226.6	1224.2	1223.6	1221.8
15°	1208.0	1206.8	1203.8	1202.0	1200.8
17.5°	1185.1	1183.3	1179.7	1176.7	1174.3
20°	1159.3	1156.9	1151.5	1147.9	1144.9
22.5°	1129.9	1127.4	1119.6	1115.4	1112.4
25°	1096.8	1093.8	1084.8	1079.4	1076.4
27.5°	1061.3	1057.7	1047.5	1041.5	1038.5
30°	1024.7	1019.3	1009.1	1001.8	999.4
32.5°	983.8	978.4	968.2	959.8	957.4
35°	941.7	935.7	923.7	915.9	913.5
37.5°	898.5	890.7	879.8	872.0	868.4
40°	852.8	845.0	833.0	824.6	822.7
42.5°	807.1	797.5	787.3	778.9	775.3
45°	760.2	750.0	738.6	731.4	727.8
47.5°	711.0	701.3	691.1	682.7	679.7
50°	662.9	652.7	642.5	634.6	631.0
52.5°	613.6	603.4	593.8	587.2	583.6
55°	565.5	554.7	545.7	537.9	535.5
57.5°	516.8	507.2	497.0	489.8	488.0
60°	467.6	459.2	448.9	442.3	440.5
62.5°	420.1	411.7	402.1	395.4	392.4
65°	372.0	363.6	354.6	349.2	347.4
67.5°	325.1	317.3	309.5	304.1	302.9
70°	280.1	272.2	265.0	260.2	258.4
72.5°	235.0	229.6	222.4	219.4	217.6
75°	192.3	186.3	181.5	180.9	178.5
77.5°	150.8	150.2	142.4	141.2	141.2
80°	111.8	110.0	105.8	104.6	106.4
82.5°	76.9	75.7	73.3	72.7	72.1
85°	46.3	46.3	45.7	42.7	42.7
87.5°	21.0	20.4	19.8	20.4	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)