

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: P995589

Luminaire Tested: 24D3X-LP-WD-35-L840.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995589
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-35-L840.ies
Description: 2x4 D3X-LP AT 3500LM 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

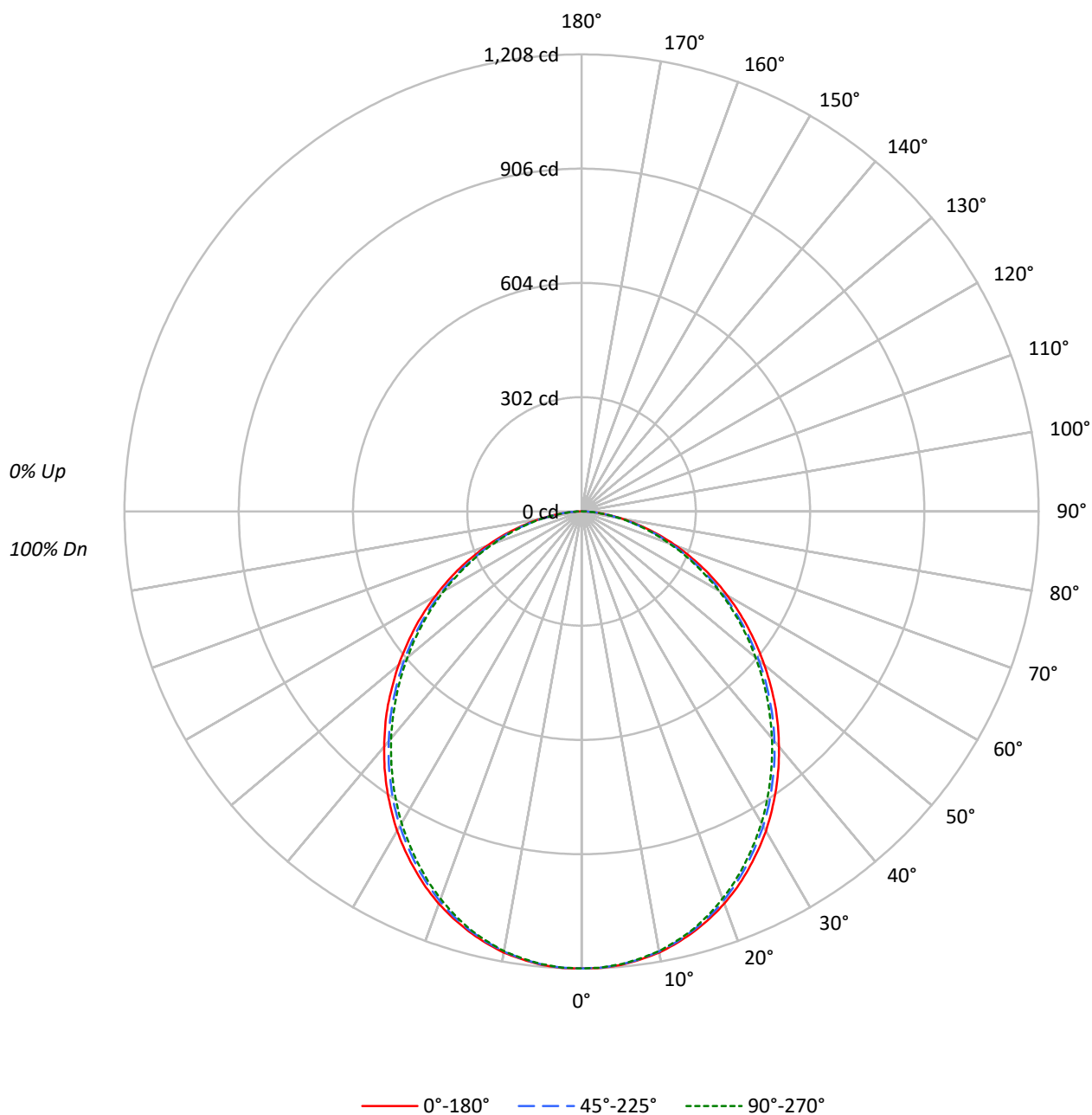
Lumens per Lamp: N/A
Luminaire Lumens: 3045.6 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.3
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

TEST NUMBER: P995589

CATALOG NUMBER: 24D3X-LP-WD-35-L840.ies

Luminous Intensity Polar Plot



TEST NUMBER: P995589

CATALOG NUMBER: 24D3X-LP-WD-35-L840.ies

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	30	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°	1625	1625	1625
5°	1625	1624	1622
10°	1617	1614	1612
15°	1601	1596	1592
20°	1580	1569	1560
25°	1549	1533	1521
30°	1515	1492	1478
35°	1472	1444	1428
40°	1425	1392	1375
45°	1377	1337	1318
50°	1320	1280	1257
55°	1263	1218	1195
60°	1197	1150	1128
65°	1127	1074	1053
70°	1048	992	967
75°	951	898	883
80°	824	780	784
85°	679	672	627

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1377 cd/sqm

TEST NUMBER: P995589

CATALOG NUMBER: 24D3X-LP-WD-35-L840.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	3.7
10°-20°	322.9	10.6
20°-30°	475.8	15.6
30°-40°	550.8	18.1
40°-50°	543.8	17.9
50°-60°	465.8	15.3
60°-70°	336.8	11.1
70°-80°	185.6	6.1
80°-90°	50.0	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°	912.8	30.0
0°-40°	1463.6	48.1
0°-60°	2473.2	81.2
0°-90°	3045.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3045.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1203	1203	1202	1201	1201	114
15°	1150	1148	1146	1144	1143	324
25°	1044	1041	1032	1027	1024	481
35°	896	890	879	872	869	560
45°	724	714	703	696	693	557
55°	538	528	519	512	510	481
65°	354	346	337	332	331	351
75°	183	177	173	172	170	194
85°	44	44	44	41	41	52
90°	0	0	0	0	0	

TEST NUMBER: P995589

CATALOG NUMBER: 24D3X-LP-WD-35-L840.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.9	1207.9	1207.9	1207.9	1207.9
2.5°	1207.9	1207.9	1206.7	1206.7	1206.7
5°	1203.3	1202.7	1202.2	1201.0	1201.0
7.5°	1194.7	1194.7	1193.0	1193.0	1191.9
10°	1183.9	1182.7	1181.0	1181.0	1179.9
12.5°	1168.4	1167.3	1165.0	1164.4	1162.7
15°	1149.6	1148.4	1145.5	1143.8	1142.7
17.5°	1127.8	1126.1	1122.7	1119.8	1117.5
20°	1103.2	1100.9	1095.8	1092.4	1089.5
22.5°	1075.2	1072.9	1065.5	1061.5	1058.6
25°	1043.7	1040.9	1032.3	1027.2	1024.3
27.5°	1010.0	1006.6	996.8	991.1	988.3
30°	975.1	970.0	960.2	953.4	951.1
32.5°	936.2	931.1	921.4	913.3	911.1
35°	896.2	890.5	879.0	871.6	869.3
37.5°	855.0	847.6	837.3	829.8	826.4
40°	811.5	804.1	792.7	784.7	783.0
42.5°	768.1	758.9	749.2	741.2	737.8
45°	723.5	713.8	702.9	696.0	692.6
47.5°	676.6	667.4	657.7	649.7	646.8
50°	630.8	621.1	611.4	603.9	600.5
52.5°	583.9	574.2	565.1	558.8	555.3
55°	538.2	527.9	519.3	511.9	509.6
57.5°	491.8	482.7	473.0	466.1	464.4
60°	445.0	436.9	427.2	420.9	419.2
62.5°	399.8	391.8	382.6	376.3	373.5
65°	354.0	346.0	337.4	332.3	330.6
67.5°	309.4	302.0	294.5	289.4	288.2
70°	266.5	259.1	252.2	247.6	245.9
72.5°	223.6	218.5	211.6	208.7	207.0
75°	183.0	177.3	172.7	172.1	169.9
77.5°	143.6	143.0	135.5	134.4	134.4
80°	106.4	104.7	100.7	99.5	101.2
82.5°	73.2	72.1	69.8	69.2	68.6
85°	44.0	44.0	43.5	40.6	40.6
87.5°	20.0	19.4	18.9	19.4	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)