

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: P995588

Luminaire Tested: 24D3X-LP-WD-35-L835.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995588
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-L835.ies
Description: 2x4 D3X-LP AT 3500LM 3500K 80CRI
Light Source: -
Ballast/Driver: -

Summary

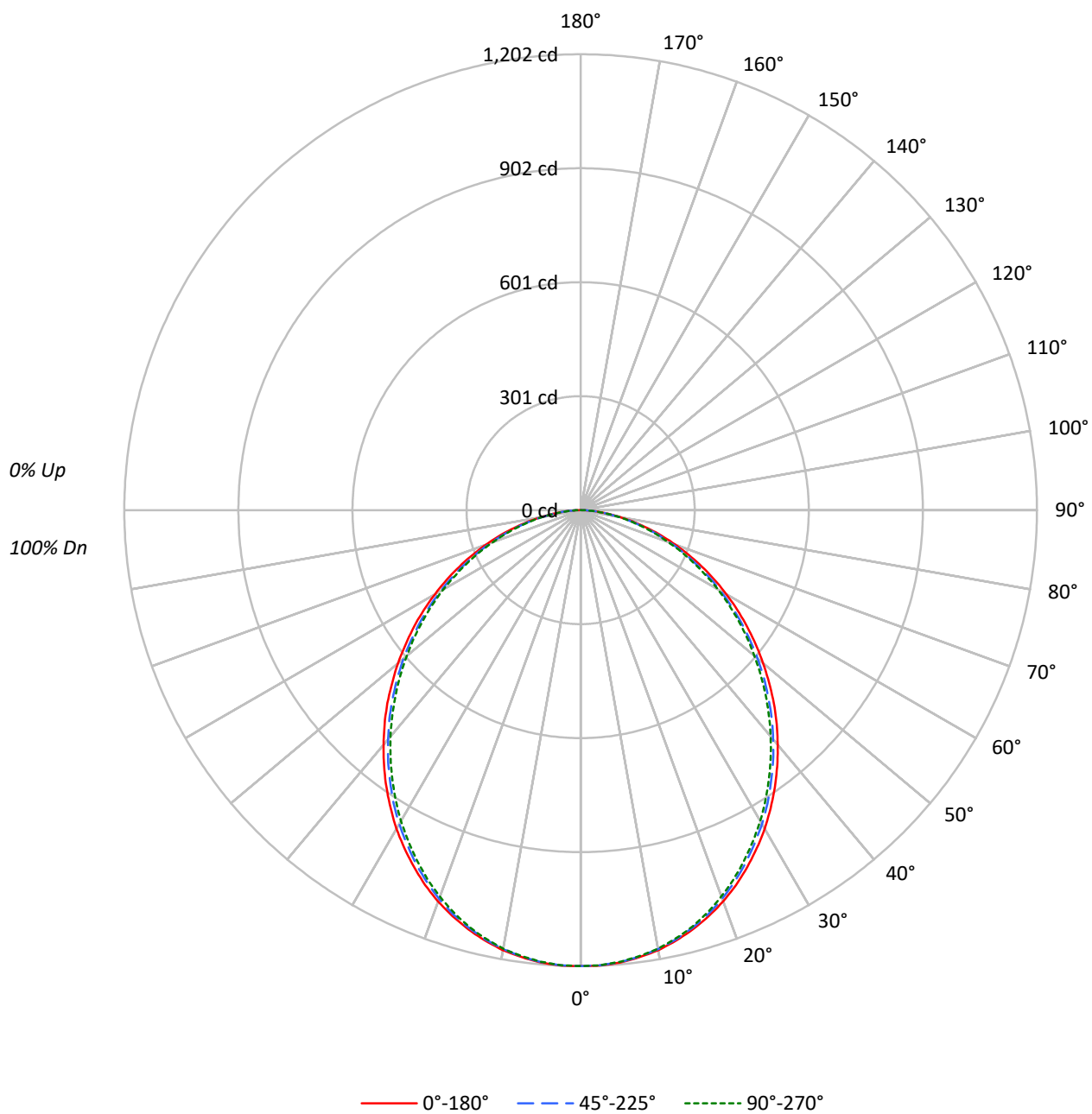
Lumens per Lamp: N/A
Luminaire Lumens: 3030.3 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	1617	1617	1617
5°	1617	1615	1614
10°	1609	1605	1604
15°	1593	1588	1584
20°	1572	1561	1552
25°	1542	1525	1513
30°	1507	1484	1470
35°	1465	1437	1421
40°	1418	1385	1368
45°	1370	1331	1311
50°	1314	1273	1251
55°	1256	1212	1189
60°	1191	1144	1122
65°	1121	1069	1047
70°	1043	987	963
75°	947	894	879
80°	820	776	780
85°	676	667	624

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1370 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	3.7
10°-20°	321.2	10.6
20°-30°	473.4	15.6
30°-40°	548.1	18.1
40°-50°	541.1	17.9
50°-60°	463.5	15.3
60°-70°	335.1	11.1
70°-80°	184.7	6.1
80°-90°	49.7	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°	908.2	30.0
0°-40°	1456.2	48.1
0°-60°	2460.8	81.2
0°-90°	3030.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3030.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1197	1197	1196	1195	1195	114
15°	1144	1143	1140	1138	1137	322
25°	1038	1036	1027	1022	1019	478
35°	892	886	875	867	865	558
45°	720	710	699	692	689	555
55°	536	525	517	509	507	479
65°	352	344	336	331	329	349
75°	182	176	172	171	169	193
85°	44	44	43	40	40	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1201.8	1201.8	1201.8	1201.8	1201.8
2.5°	1201.8	1201.8	1200.7	1200.7	1200.7
5°	1197.3	1196.7	1196.1	1195.0	1195.0
7.5°	1188.7	1188.7	1187.0	1187.0	1185.9
10°	1177.9	1176.8	1175.1	1175.1	1173.9
12.5°	1162.6	1161.4	1159.1	1158.6	1156.9
15°	1143.8	1142.6	1139.8	1138.1	1136.9
17.5°	1122.2	1120.4	1117.0	1114.2	1111.9
20°	1097.7	1095.4	1090.3	1086.9	1084.0
22.5°	1069.8	1067.5	1060.1	1056.1	1053.3
25°	1038.5	1035.7	1027.1	1022.0	1019.2
27.5°	1004.9	1001.5	991.8	986.2	983.3
30°	970.2	965.1	955.4	948.6	946.3
32.5°	931.5	926.4	916.7	908.8	906.5
35°	891.7	886.0	874.6	867.2	864.9
37.5°	850.7	843.3	833.1	825.7	822.3
40°	807.5	800.1	788.7	780.7	779.0
42.5°	764.2	755.1	745.4	737.5	734.1
45°	719.8	710.2	699.4	692.5	689.1
47.5°	673.2	664.1	654.4	646.4	643.6
50°	627.7	618.0	608.3	600.9	597.5
52.5°	581.0	571.3	562.2	556.0	552.5
55°	535.5	525.2	516.7	509.3	507.0
57.5°	489.4	480.3	470.6	463.8	462.1
60°	442.7	434.7	425.1	418.8	417.1
62.5°	397.8	389.8	380.7	374.4	371.6
65°	352.2	344.3	335.7	330.6	328.9
67.5°	307.9	300.5	293.1	287.9	286.8
70°	265.2	257.8	250.9	246.4	244.7
72.5°	222.5	217.4	210.5	207.7	206.0
75°	182.1	176.4	171.9	171.3	169.0
77.5°	142.8	142.3	134.9	133.7	133.7
80°	105.8	104.1	100.2	99.0	100.7
82.5°	72.8	71.7	69.4	68.9	68.3
85°	43.8	43.8	43.2	40.4	40.4
87.5°	19.9	19.3	18.8	19.3	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)