

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: P995587

Luminaire Tested: 24D3X-LP-WD-35-L830.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995587
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-L830.ies
Description: 2x4 D3X-LP AT 3500LM 3000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

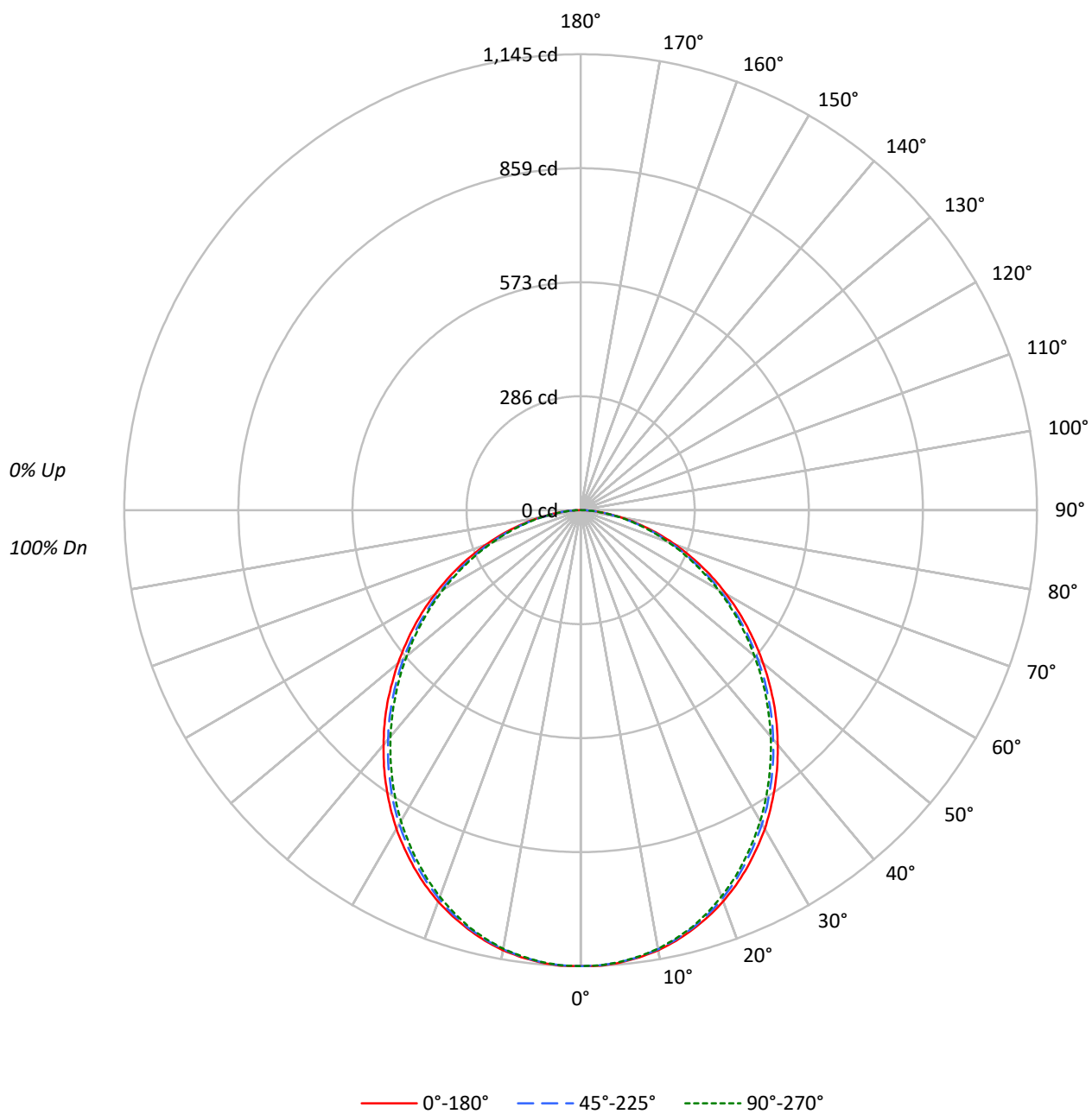
Lumens per Lamp: N/A
Luminaire Lumens: 2887.2 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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		
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1541	1541	1541
5°	1541	1539	1538
10°	1533	1530	1528
15°	1518	1513	1509
20°	1497	1487	1479
25°	1469	1453	1442
30°	1436	1414	1401
35°	1396	1369	1354
40°	1351	1320	1304
45°	1305	1268	1249
50°	1252	1213	1192
55°	1197	1155	1133
60°	1135	1090	1069
65°	1068	1018	998
70°	994	941	917
75°	902	851	837
80°	781	739	744
85°	644	636	594

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1305 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	3.7
10°-20°	306.1	10.6
20°-30°	451.1	15.6
30°-40°	522.2	18.1
40°-50°	515.5	17.9
50°-60°	441.6	15.3
60°-70°	319.2	11.1
70°-80°	176.0	6.1
80°-90°	47.4	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°	865.3	30.0
0°-40°	1387.5	48.1
0°-60°	2344.6	81.2
0°-90°	2887.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2887.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1141	1140	1140	1139	1139	108
15°	1090	1089	1086	1084	1083	307
25°	990	987	979	974	971	456
35°	850	844	833	826	824	531
45°	686	677	666	660	657	528
55°	510	500	492	485	483	456
65°	336	328	320	315	313	333
75°	174	168	164	163	161	184
85°	42	42	41	38	38	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1145.1	1145.1	1144.0	1144.0	1144.0
5°	1140.7	1140.2	1139.6	1138.6	1138.6
7.5°	1132.6	1132.6	1131.0	1131.0	1129.9
10°	1122.3	1121.2	1119.6	1119.6	1118.5
12.5°	1107.7	1106.6	1104.4	1103.9	1102.2
15°	1089.8	1088.7	1086.0	1084.3	1083.3
17.5°	1069.2	1067.5	1064.3	1061.6	1059.4
20°	1045.8	1043.7	1038.8	1035.5	1032.8
22.5°	1019.3	1017.1	1010.1	1006.3	1003.6
25°	989.5	986.8	978.6	973.7	971.0
27.5°	957.5	954.2	945.0	939.6	936.9
30°	924.4	919.5	910.3	903.8	901.6
32.5°	887.5	882.7	873.4	865.8	863.7
35°	849.6	844.2	833.3	826.3	824.1
37.5°	810.5	803.5	793.7	786.7	783.4
40°	769.3	762.3	751.4	743.9	742.2
42.5°	728.1	719.5	710.2	702.7	699.4
45°	685.8	676.6	666.3	659.8	656.6
47.5°	641.4	632.7	623.5	615.9	613.2
50°	598.0	588.8	579.6	572.5	569.3
52.5°	553.6	544.3	535.7	529.7	526.4
55°	510.2	500.4	492.3	485.2	483.1
57.5°	466.3	457.6	448.4	441.9	440.2
60°	421.8	414.2	405.0	399.0	397.4
62.5°	379.0	371.4	362.7	356.7	354.0
65°	335.6	328.0	319.9	315.0	313.4
67.5°	293.3	286.3	279.2	274.3	273.3
70°	252.7	245.6	239.1	234.8	233.1
72.5°	212.0	207.1	200.6	197.9	196.3
75°	173.5	168.1	163.7	163.2	161.0
77.5°	136.1	135.5	128.5	127.4	127.4
80°	100.8	99.2	95.4	94.3	96.0
82.5°	69.4	68.3	66.1	65.6	65.1
85°	41.7	41.7	41.2	38.5	38.5
87.5°	19.0	18.4	17.9	18.4	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)