

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: P995590

Luminaire Tested: 24D3X-LP-WD-35-L850.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995590
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-L850.ies
Description: 2x4 D3X-LP AT 3500LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

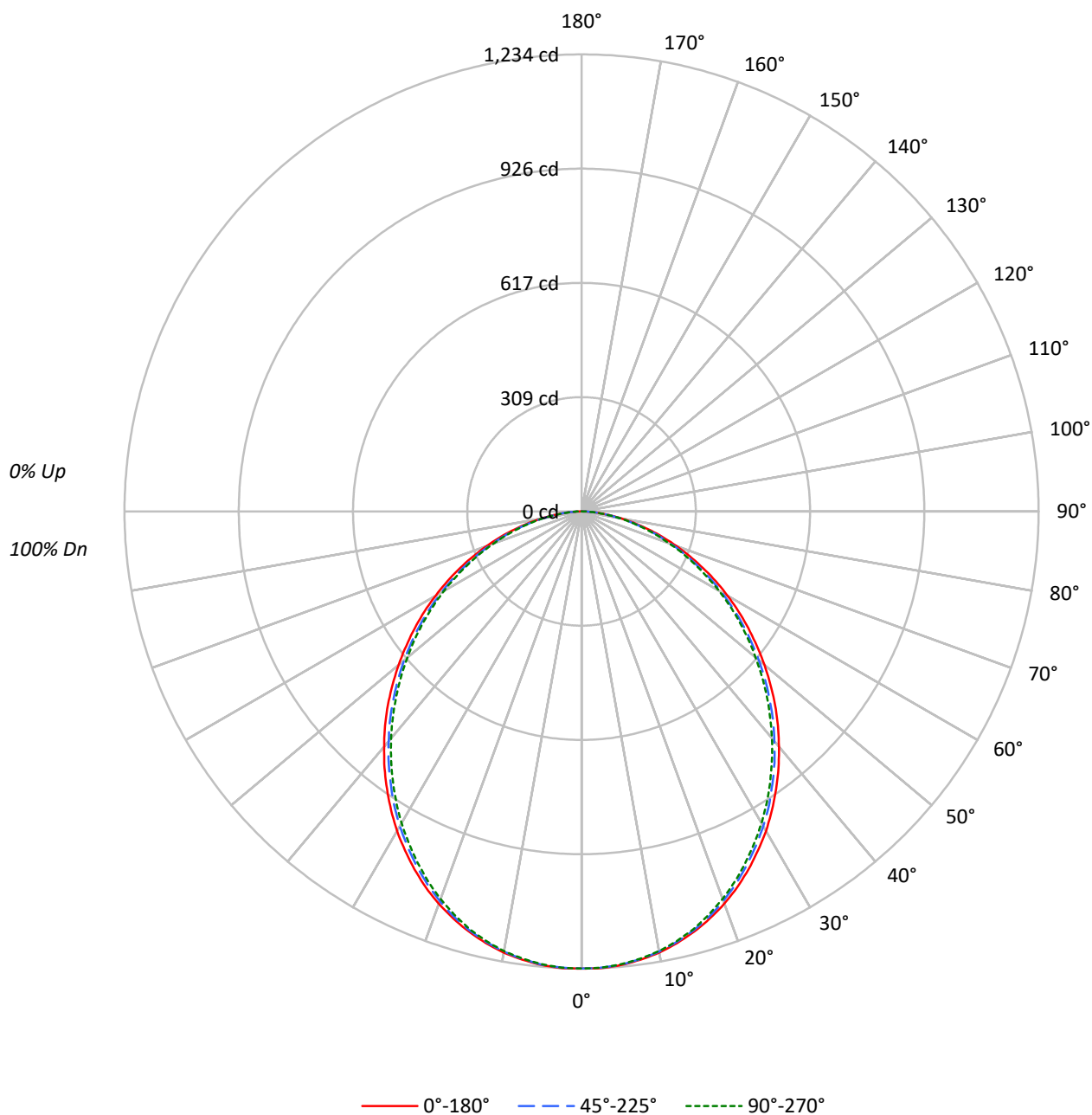
Lumens per Lamp: N/A
Luminaire Lumens: 3112.1 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	31	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°	1661	1661	1661
5°	1661	1659	1658
10°	1653	1649	1647
15°	1636	1631	1626
20°	1614	1603	1594
25°	1583	1566	1554
30°	1548	1524	1510
35°	1504	1475	1459
40°	1457	1423	1405
45°	1407	1367	1347
50°	1349	1308	1284
55°	1290	1245	1221
60°	1224	1175	1153
65°	1152	1098	1075
70°	1071	1014	989
75°	972	918	902
80°	842	797	801
85°	695	685	641

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1407 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	3.7
10°-20°	329.9	10.6
20°-30°	486.2	15.6
30°-40°	562.9	18.1
40°-50°	555.7	17.9
50°-60°	476.0	15.3
60°-70°	344.1	11.1
70°-80°	189.7	6.1
80°-90°	51.1	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°	932.7	30.0
0°-40°	1495.6	48.1
0°-60°	2527.2	81.2
0°-90°	3112.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3112.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1230	1229	1228	1227	1227	117
15°	1175	1174	1171	1169	1168	331
25°	1066	1064	1055	1050	1047	491
35°	916	910	898	891	888	573
45°	739	729	718	711	708	570
55°	550	539	531	523	521	492
65°	362	354	345	340	338	359
75°	187	181	176	176	174	198
85°	45	45	44	42	42	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1234.3	1234.3	1234.3	1234.3	1234.3
2.5°	1234.3	1234.3	1233.1	1233.1	1233.1
5°	1229.6	1229.0	1228.4	1227.3	1227.3
7.5°	1220.8	1220.8	1219.1	1219.1	1217.9
10°	1209.7	1208.6	1206.8	1206.8	1205.6
12.5°	1193.9	1192.8	1190.4	1189.9	1188.1
15°	1174.7	1173.5	1170.6	1168.8	1167.6
17.5°	1152.5	1150.7	1147.2	1144.3	1141.9
20°	1127.3	1125.0	1119.7	1116.2	1113.3
22.5°	1098.7	1096.3	1088.8	1084.7	1081.7
25°	1066.5	1063.6	1054.9	1049.6	1046.7
27.5°	1032.1	1028.6	1018.6	1012.8	1009.9
30°	996.4	991.2	981.2	974.2	971.9
32.5°	956.7	951.4	941.5	933.3	931.0
35°	915.8	909.9	898.2	890.6	888.3
37.5°	873.7	866.1	855.6	848.0	844.5
40°	829.3	821.7	810.0	801.8	800.1
42.5°	784.9	775.5	765.6	757.4	753.9
45°	739.3	729.3	718.2	711.2	707.7
47.5°	691.4	682.0	672.1	663.9	661.0
50°	644.6	634.7	624.7	617.1	613.6
52.5°	596.7	586.7	577.4	571.0	567.5
55°	549.9	539.4	530.6	523.0	520.7
57.5°	502.6	493.2	483.3	476.3	474.5
60°	454.7	446.5	436.6	430.1	428.4
62.5°	408.5	400.3	391.0	384.5	381.6
65°	361.7	353.6	344.8	339.5	337.8
67.5°	316.2	308.6	301.0	295.7	294.5
70°	272.3	264.7	257.7	253.0	251.3
72.5°	228.5	223.2	216.2	213.3	211.6
75°	187.0	181.2	176.5	175.9	173.6
77.5°	146.7	146.1	138.5	137.3	137.3
80°	108.7	106.9	102.9	101.7	103.4
82.5°	74.8	73.6	71.3	70.7	70.1
85°	45.0	45.0	44.4	41.5	41.5
87.5°	20.5	19.9	19.3	19.9	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)