

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: P#

Luminaire Tested: 24D3X-LP-35-L927.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P#
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-35-L927.ies
Description: 2x4 D3X-LP AT 3500LM 2700K 90CRI
Light Source: -
Ballast/Driver: -

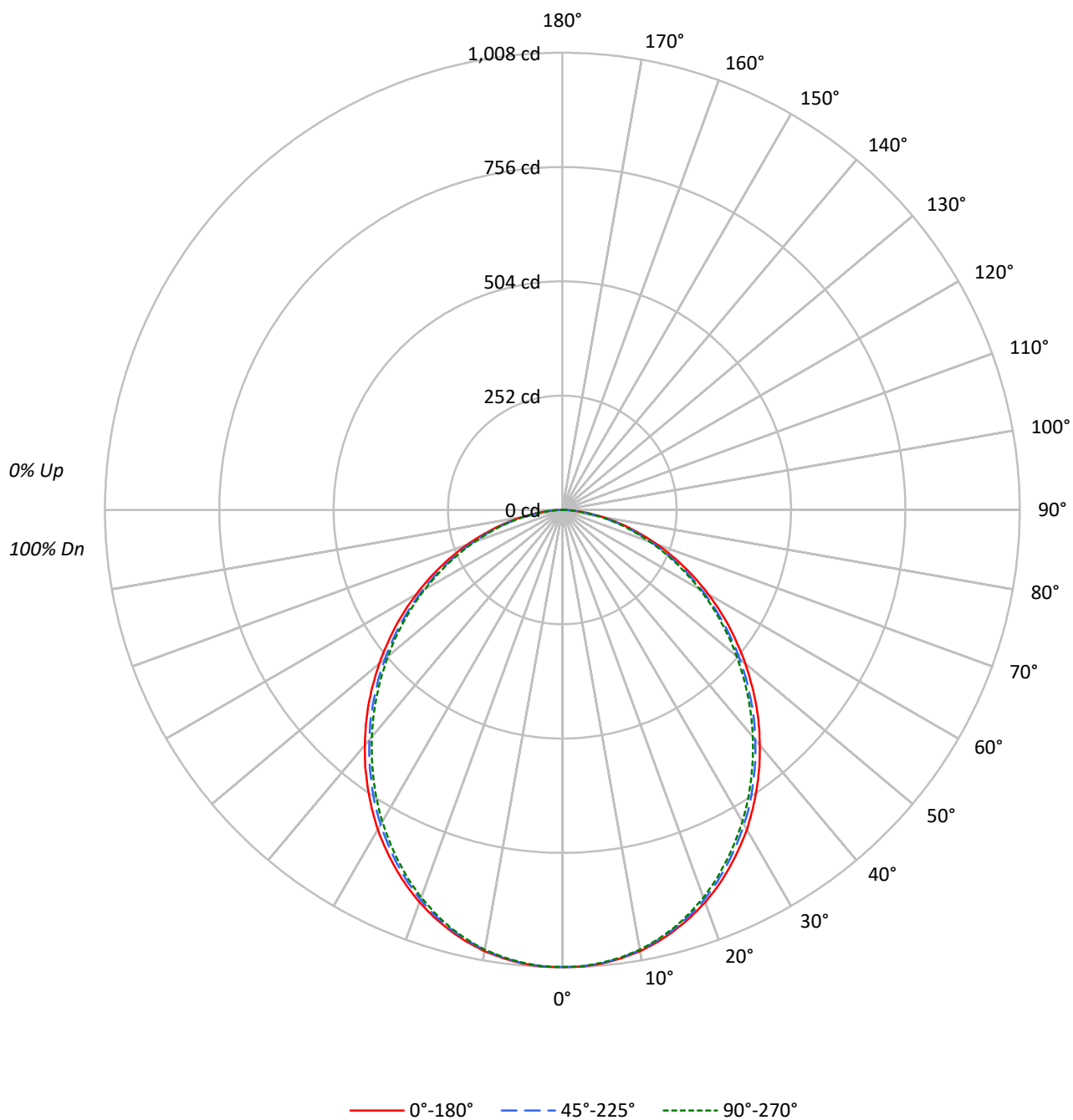
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2540.9 lumens
Efficiency: N/A
Efficacy: 100.4 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

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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	100	97	106	102	99	95	98	95	92		94	92	89		91
2	100	92	85	79	97	90	84	78	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52
7	66	53	44	38	64	52	44	38	51	43	38		49	42	38		48
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44
9	58	44	36	31	56	44	36	31	43	36	31		42	35	31		41
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1356	1356	1356
5°	1356	1355	1353
10°	1349	1346	1345
15°	1336	1331	1328
20°	1318	1309	1302
25°	1293	1279	1269
30°	1264	1245	1233
35°	1228	1205	1191
40°	1189	1162	1147
45°	1149	1116	1099
50°	1102	1068	1049
55°	1053	1016	997
60°	999	959	941
65°	940	896	878
70°	875	828	807
75°	794	749	737
80°	687	651	655
85°	567	560	523

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1149 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	3.7
10°-20°	269.4	10.6
20°-30°	397.0	15.6
30°-40°	459.5	18.1
40°-50°	453.7	17.9
50°-60°	388.6	15.3
60°-70°	281.0	11.1
70°-80°	154.9	6.1
80°-90°	41.7	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°	761.5	30.0
0°-40°	1221.1	48.1
0°-60°	2063.4	81.2
0°-90°	2540.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2540.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1004	1003	1003	1002	1002	95
15°	959	958	956	954	953	270
25°	871	868	861	857	855	401
35°	748	743	733	727	725	468
45°	604	596	586	581	578	465
55°	449	440	433	427	425	401
65°	295	289	282	277	276	293
75°	153	148	144	144	142	162
85°	37	37	36	34	34	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1007.7	1007.7	1007.7	1007.7	1007.7
2.5°	1007.7	1007.7	1006.8	1006.8	1006.8
5°	1003.9	1003.4	1003.0	1002.0	1002.0
7.5°	996.8	996.8	995.3	995.3	994.4
10°	987.7	986.7	985.3	985.3	984.4
12.5°	974.8	973.9	971.9	971.5	970.0
15°	959.1	958.1	955.7	954.3	953.3
17.5°	940.9	939.5	936.6	934.3	932.3
20°	920.4	918.5	914.2	911.4	909.0
22.5°	897.0	895.1	888.9	885.6	883.2
25°	870.8	868.4	861.3	857.0	854.6
27.5°	842.6	839.8	831.7	826.9	824.5
30°	813.5	809.2	801.1	795.4	793.5
32.5°	781.1	776.8	768.7	762.0	760.1
35°	747.7	742.9	733.4	727.2	725.3
37.5°	713.3	707.1	698.5	692.3	689.5
40°	677.1	670.9	661.3	654.6	653.2
42.5°	640.8	633.2	625.1	618.4	615.5
45°	603.6	595.5	586.4	580.7	577.8
47.5°	564.5	556.8	548.7	542.0	539.7
50°	526.3	518.2	510.1	503.9	501.0
52.5°	487.2	479.1	471.4	466.2	463.3
55°	449.0	440.4	433.2	427.0	425.1
57.5°	410.3	402.7	394.6	388.9	387.4
60°	371.2	364.5	356.4	351.2	349.7
62.5°	333.5	326.8	319.2	314.0	311.6
65°	295.4	288.7	281.5	277.2	275.8
67.5°	258.1	251.9	245.7	241.4	240.5
70°	222.4	216.1	210.4	206.6	205.2
72.5°	186.6	182.3	176.5	174.2	172.7
75°	152.7	147.9	144.1	143.6	141.7
77.5°	119.8	119.3	113.1	112.1	112.1
80°	88.7	87.3	84.0	83.0	84.5
82.5°	61.1	60.1	58.2	57.7	57.3
85°	36.7	36.7	36.3	33.9	33.9
87.5°	16.7	16.2	15.7	16.2	17.7
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.1	13.7	12.5	14.0	14.4	11.9	13.5	12.2	13.8	14.1
	3H	13.8	15.2	14.2	15.6	15.9	13.5	14.9	13.9	15.2	15.6
	4H	14.4	15.8	14.8	16.1	16.5	14.1	15.4	14.5	15.8	16.2
	6H	14.9	16.1	15.3	16.5	16.9	14.5	15.8	14.9	16.1	16.5
	8H	15.0	16.2	15.4	16.6	17.0	14.6	15.8	15.1	16.2	16.6
	12H	15.1	16.2	15.5	16.6	17.0	14.7	15.9	15.2	16.3	16.7
4H	2H	12.7	14.0	13.1	14.4	14.8	12.5	13.8	12.9	14.2	14.5
	3H	14.6	15.7	15.0	16.1	16.5	14.3	15.4	14.7	15.8	16.2
	4H	15.3	16.3	15.7	16.7	17.2	15.0	16.0	15.5	16.5	16.9
	6H	15.9	16.8	16.3	17.2	17.7	15.6	16.5	16.0	16.9	17.4
	8H	16.1	16.9	16.5	17.3	17.8	15.7	16.6	16.2	17.0	17.5
	12H	16.2	16.9	16.7	17.4	17.9	15.9	16.6	16.3	17.1	17.6
8H	4H	15.6	16.4	16.0	16.8	17.3	15.3	16.1	15.8	16.6	17.1
	6H	16.2	16.9	16.7	17.4	17.9	16.0	16.7	16.5	17.2	17.6
	8H	16.5	17.1	17.0	17.6	18.1	16.2	16.8	16.7	17.3	17.8
	12H	16.7	17.2	17.2	17.7	18.3	16.4	16.9	16.9	17.4	18.0
12H	4H	15.6	16.3	16.1	16.8	17.3	15.3	16.1	15.8	16.6	17.0
	6H	16.3	16.9	16.8	17.4	17.9	16.0	16.7	16.5	17.1	17.7
	8H	16.6	17.1	17.1	17.6	18.2	16.3	16.9	16.8	17.4	17.9



(END OF REPORT)