

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: P995508

Luminaire Tested: 22D3X-LP-WD-35-L840.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 12/20/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-WD-35-L840.ies
Description: 2x2 D3X-LP AT 3500LM 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

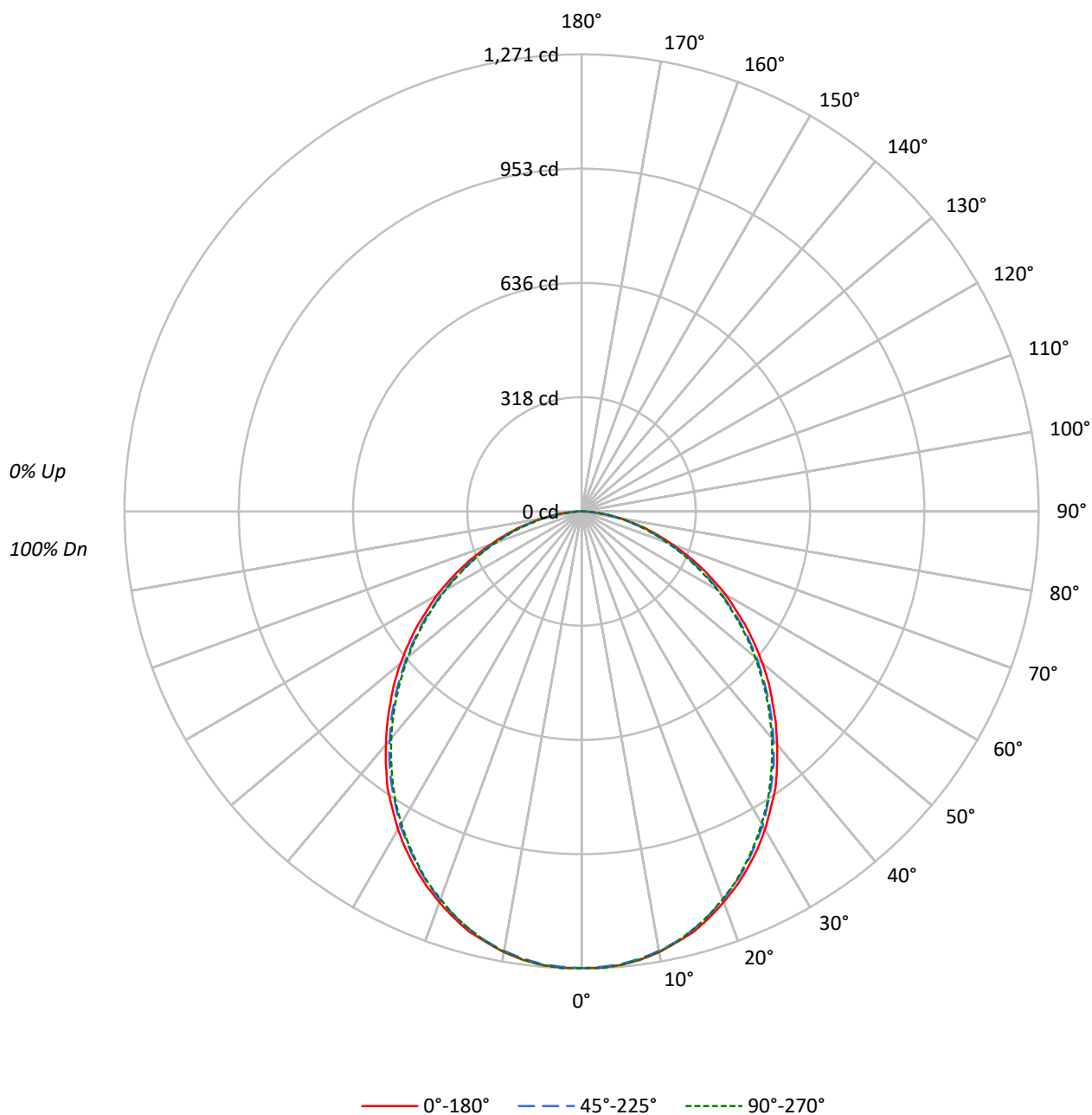
Lumens per Lamp: N/A
Luminaire Lumens: 3173.4 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71		71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45		45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36		36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32		32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	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°	3417	3417	3417
5°	3420	3413	3420
10°	3401	3390	3398
15°	3369	3351	3351
20°	3311	3293	3285
25°	3249	3219	3207
30°	3172	3132	3113
35°	3087	3029	3008
40°	2973	2915	2892
45°	2859	2792	2768
50°	2748	2658	2637
55°	2623	2528	2492
60°	2491	2383	2349
65°	2320	2207	2183
70°	2120	2040	1991
75°	1933	1815	1828
80°	1666	1568	1588
85°	1288	1250	1170

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2859 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	3.8
10°-20°	339.2	10.7
20°-30°	499.6	15.7
30°-40°	577.9	18.2
40°-50°	568.1	17.9
50°-60°	484.2	15.3
60°-70°	346.9	10.9
70°-80°	188.4	5.9
80°-90°	49.1	1.5
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°	958.7	30.2
0°-40°	1536.6	48.4
0°-60°	2588.9	81.6
0°-90°	3173.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3173.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1266	1264	1264	1264	1266	120
15°	1209	1204	1203	1202	1203	340
25°	1094	1089	1084	1082	1080	504
35°	940	932	922	917	916	586
45°	751	746	734	727	727	580
55°	559	549	539	532	531	499
65°	364	357	347	343	343	361
75°	186	180	175	172	176	196
85°	42	42	40	39	38	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.9	1269.9	1269.9	1269.9	1269.9
2.5°	1269.9	1268.7	1267.4	1268.7	1271.2
5°	1266.1	1263.6	1263.6	1263.6	1266.1
7.5°	1257.3	1254.7	1253.5	1254.7	1256.0
10°	1244.6	1242.1	1240.8	1242.1	1243.4
12.5°	1226.9	1225.6	1224.4	1224.4	1225.6
15°	1209.2	1204.1	1202.9	1201.6	1202.9
17.5°	1183.9	1182.6	1177.6	1177.6	1177.6
20°	1156.1	1153.5	1149.8	1147.2	1147.2
22.5°	1127.0	1124.5	1118.1	1115.6	1116.9
25°	1094.1	1089.0	1084.0	1081.5	1080.2
27.5°	1058.7	1053.6	1046.0	1042.2	1042.2
30°	1020.7	1016.9	1008.1	1003.0	1001.8
32.5°	979.0	976.5	963.8	961.3	961.3
35°	939.8	932.2	922.1	917.0	915.8
37.5°	893.0	887.9	877.8	871.5	870.2
40°	846.2	839.9	829.7	824.7	823.4
42.5°	799.4	793.1	782.9	776.6	775.4
45°	751.3	746.3	733.6	727.3	727.3
47.5°	705.8	695.7	684.3	679.2	678.0
50°	656.5	647.6	635.0	629.9	629.9
52.5°	607.1	600.8	586.9	584.4	581.8
55°	559.1	548.9	538.8	532.5	531.2
57.5°	507.2	498.4	488.2	483.2	483.2
60°	462.9	451.6	442.7	436.4	436.4
62.5°	412.3	402.2	393.4	389.6	388.3
65°	364.3	356.7	346.6	342.8	342.8
67.5°	316.2	309.9	301.0	297.2	298.5
70°	269.4	265.6	259.3	254.2	253.0
72.5°	226.4	221.3	215.0	213.8	213.8
75°	185.9	179.6	174.6	172.0	175.8
77.5°	144.2	140.4	137.9	136.6	137.9
80°	107.5	102.5	101.2	102.5	102.5
82.5°	74.6	72.1	70.8	70.8	70.8
85°	41.7	41.7	40.5	39.2	37.9
87.5°	16.4	16.4	17.7	17.7	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)