

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: P601151

Luminaire Tested: 24D3X-LP-30-L940

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-30-L940
Description: 2x4 D3X-LP AT 3000LM 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

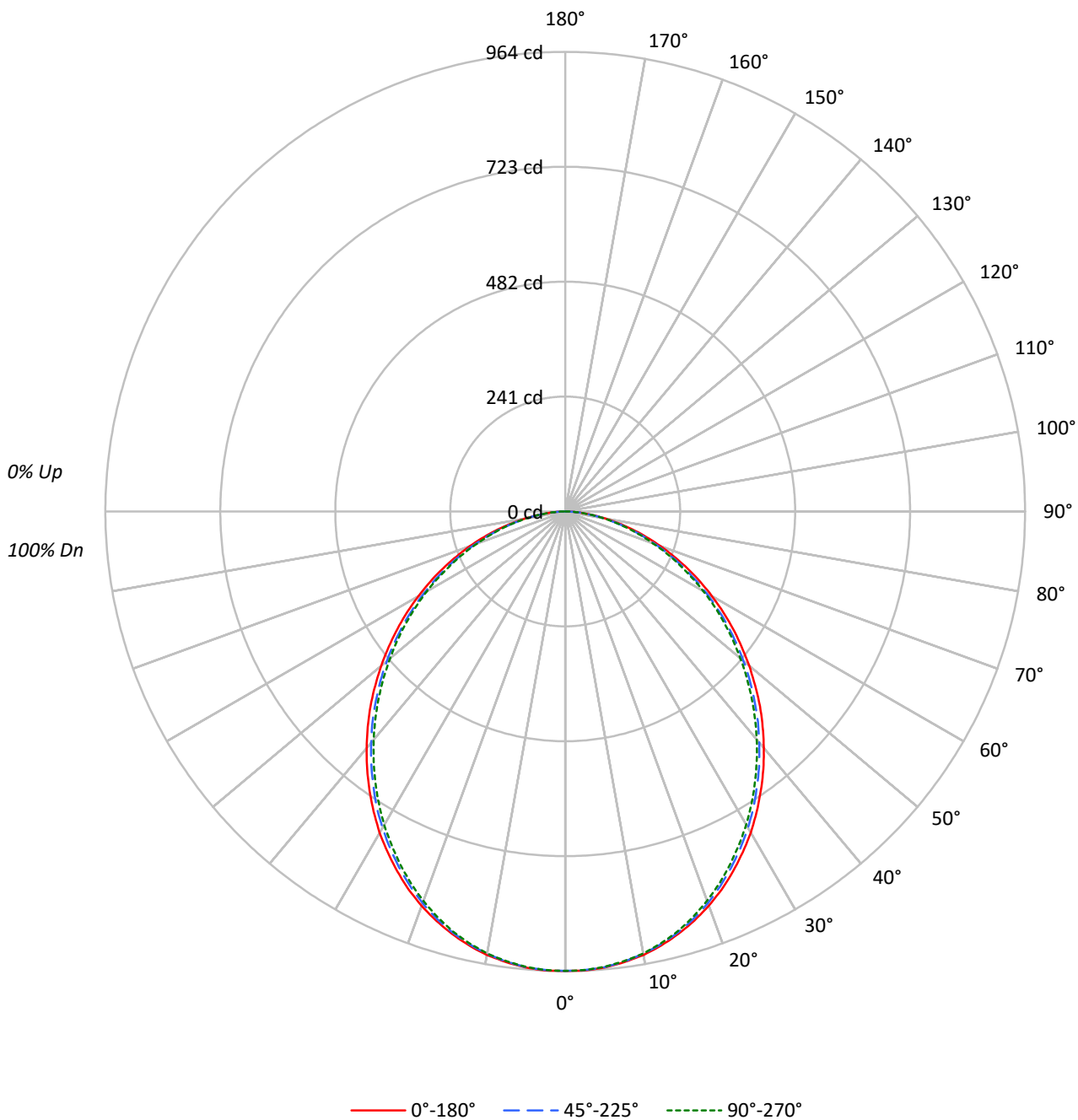
Lumens per Lamp: N/A
Luminaire Lumens: 2430.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.3
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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	30	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°	1297	1297	1297
5°	1297	1296	1294
10°	1291	1287	1286
15°	1278	1273	1270
20°	1260	1252	1245
25°	1236	1223	1213
30°	1209	1190	1179
35°	1174	1152	1139
40°	1137	1111	1097
45°	1098	1067	1051
50°	1054	1021	1003
55°	1007	972	954
60°	955	917	900
65°	899	857	840
70°	836	792	772
75°	759	716	704
80°	658	622	626
85°	542	536	500

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1098 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	3.7
10°-20°	257.6	10.6
20°-30°	379.6	15.6
30°-40°	439.5	18.1
40°-50°	433.9	17.9
50°-60°	371.6	15.3
60°-70°	268.7	11.1
70°-80°	148.1	6.1
80°-90°	39.9	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°	728.3	30.0
0°-40°	1167.8	48.1
0°-60°	1973.3	81.2
0°-90°	2430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	960	960	959	958	958	91
15°	917	916	914	913	912	259
25°	833	830	824	820	817	383
35°	715	710	701	695	694	447
45°	577	570	561	555	553	445
55°	429	421	414	408	407	384
65°	282	276	269	265	264	280
75°	146	142	138	137	136	155
85°	35	35	35	32	32	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	963.7	963.7	963.7	963.7	963.7
2.5°	963.7	963.7	962.8	962.8	962.8
5°	960.1	959.6	959.2	958.3	958.3
7.5°	953.2	953.2	951.9	951.9	951.0
10°	944.6	943.7	942.3	942.3	941.4
12.5°	932.3	931.3	929.5	929.1	927.7
15°	917.2	916.3	914.0	912.6	911.7
17.5°	899.9	898.5	895.7	893.5	891.6
20°	880.2	878.4	874.3	871.6	869.3
22.5°	857.9	856.0	850.1	846.9	844.6
25°	832.8	830.5	823.7	819.5	817.3
27.5°	805.9	803.1	795.4	790.8	788.5
30°	778.0	773.9	766.2	760.7	758.9
32.5°	747.0	742.9	735.1	728.7	726.9
35°	715.0	710.5	701.4	695.4	693.6
37.5°	682.2	676.3	668.0	662.1	659.4
40°	647.5	641.6	632.5	626.1	624.7
42.5°	612.8	605.5	597.8	591.4	588.6
45°	577.2	569.5	560.8	555.3	552.6
47.5°	539.8	532.5	524.8	518.4	516.1
50°	503.3	495.6	487.8	481.9	479.1
52.5°	465.9	458.1	450.8	445.8	443.1
55°	429.4	421.2	414.3	408.4	406.6
57.5°	392.4	385.1	377.4	371.9	370.5
60°	355.0	348.6	340.9	335.8	334.5
62.5°	319.0	312.6	305.3	300.3	298.0
65°	282.5	276.1	269.2	265.1	263.8
67.5°	246.9	240.9	235.0	230.9	230.0
70°	212.6	206.7	201.2	197.6	196.2
72.5°	178.4	174.3	168.8	166.6	165.2
75°	146.0	141.5	137.8	137.4	135.5
77.5°	114.5	114.1	108.1	107.2	107.2
80°	84.9	83.5	80.3	79.4	80.8
82.5°	58.4	57.5	55.7	55.2	54.8
85°	35.1	35.1	34.7	32.4	32.4
87.5°	16.0	15.5	15.1	15.5	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)