

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: P601150

Luminaire Tested: 24D3X-LP-30-L935

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601150
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-L935
Description: 2x4 D3X-LP AT 3000LM 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

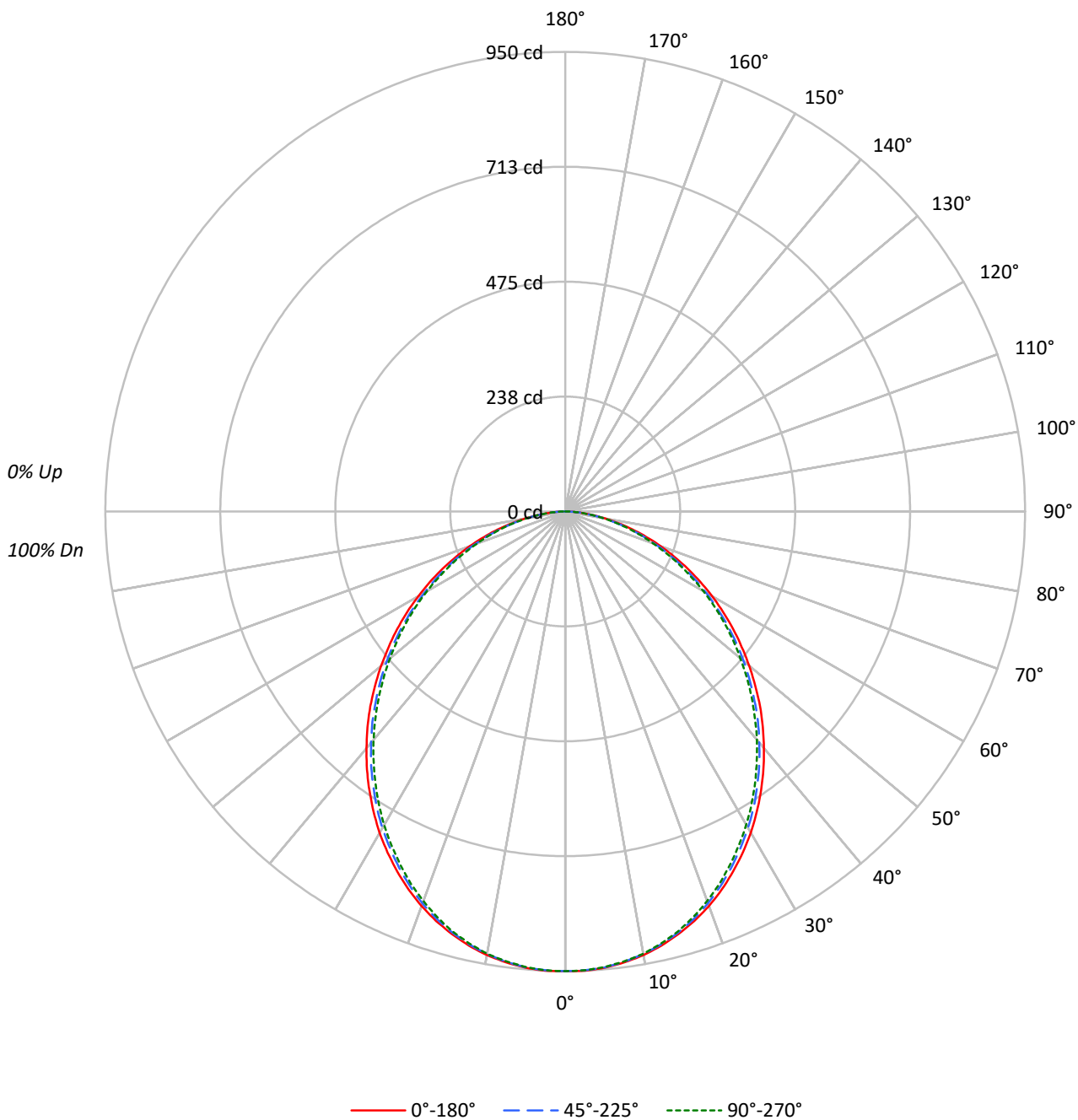
Lumens per Lamp: N/A
Luminaire Lumens: 2396.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	1279	1279	1279
5°	1279	1277	1276
10°	1273	1269	1268
15°	1260	1255	1252
20°	1243	1234	1227
25°	1219	1206	1196
30°	1192	1174	1162
35°	1158	1136	1123
40°	1121	1095	1082
45°	1083	1052	1037
50°	1039	1007	989
55°	993	958	940
60°	942	904	887
65°	887	845	828
70°	825	780	761
75°	749	706	695
80°	649	614	617
85°	534	528	492

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1083 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	3.7
10°-20°	254.0	10.6
20°-30°	374.3	15.6
30°-40°	433.3	18.1
40°-50°	427.8	17.9
50°-60°	366.4	15.3
60°-70°	264.9	11.1
70°-80°	146.0	6.1
80°-90°	39.3	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°	718.1	30.0
0°-40°	1151.4	48.1
0°-60°	1945.7	81.2
0°-90°	2396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	947	946	946	945	945	90
15°	904	904	901	900	899	255
25°	821	819	812	808	806	378
35°	705	700	692	686	684	441
45°	569	562	553	548	545	439
55°	423	415	408	403	401	378
65°	278	272	266	261	260	276
75°	144	140	136	135	134	153
85°	35	35	34	32	32	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	950.3	950.3	950.3	950.3	950.3
2.5°	950.3	950.3	949.4	949.4	949.4
5°	946.7	946.2	945.8	944.9	944.9
7.5°	939.9	939.9	938.6	938.6	937.7
10°	931.4	930.5	929.1	929.1	928.2
12.5°	919.2	918.3	916.5	916.1	914.7
15°	904.4	903.5	901.2	899.9	899.0
17.5°	887.3	885.9	883.2	881.0	879.2
20°	867.9	866.1	862.1	859.4	857.1
22.5°	845.9	844.1	838.2	835.1	832.8
25°	821.1	818.9	812.1	808.1	805.8
27.5°	794.6	791.9	784.2	779.7	777.5
30°	767.1	763.1	755.4	750.0	748.2
32.5°	736.5	732.5	724.8	718.5	716.7
35°	705.0	700.5	691.5	685.7	683.9
37.5°	672.6	666.8	658.7	652.9	650.2
40°	638.5	632.6	623.6	617.3	616.0
42.5°	604.3	597.1	589.4	583.1	580.4
45°	569.2	561.5	553.0	547.6	544.9
47.5°	532.3	525.1	517.4	511.1	508.9
50°	496.3	488.6	481.0	475.1	472.4
52.5°	459.4	451.7	444.5	439.6	436.9
55°	423.4	415.3	408.5	402.7	400.9
57.5°	386.9	379.7	372.1	366.7	365.3
60°	350.0	343.7	336.1	331.1	329.8
62.5°	314.5	308.2	301.0	296.1	293.8
65°	278.5	272.2	265.5	261.4	260.1
67.5°	243.4	237.6	231.7	227.7	226.8
70°	209.7	203.8	198.4	194.8	193.5
72.5°	175.9	171.9	166.5	164.2	162.9
75°	144.0	139.5	135.9	135.4	133.6
77.5°	112.9	112.5	106.6	105.7	105.7
80°	83.7	82.3	79.2	78.3	79.6
82.5°	57.6	56.7	54.9	54.4	54.0
85°	34.6	34.6	34.2	31.9	31.9
87.5°	15.7	15.3	14.8	15.3	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)