

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: P995661

Luminaire Tested: 24D3X-LP-WD-90-L840.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995661
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-90-L840.ies
Description: 2x4 D3X-LP AT 9000LM 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

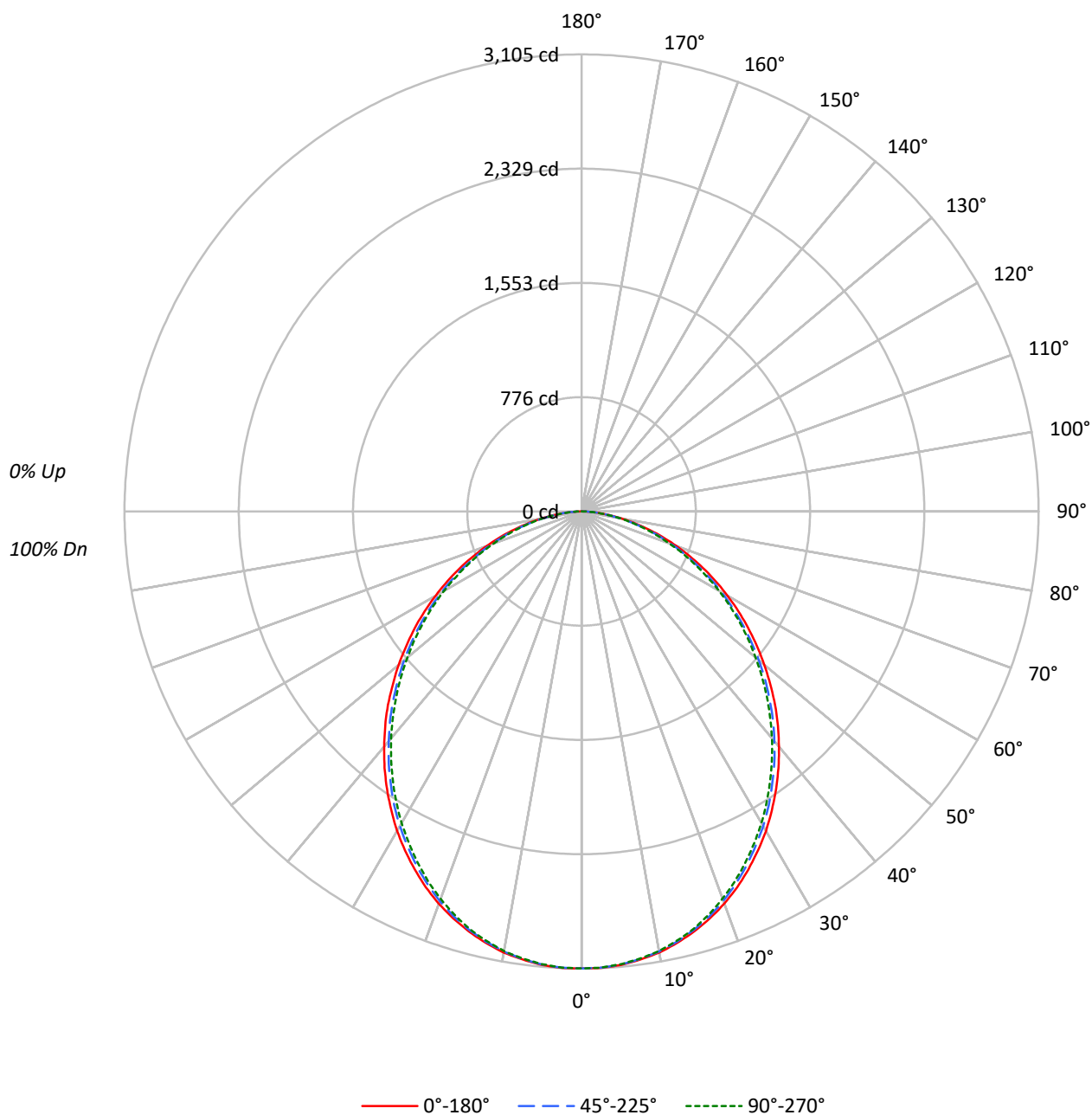
Lumens per Lamp: N/A
Luminaire Lumens: 7828.2 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	87	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	73	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	63	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	33	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4177	4177	4177
5°	4177	4173	4169
10°	4157	4147	4143
15°	4116	4101	4091
20°	4060	4033	4010
25°	3983	3939	3909
30°	3894	3835	3798
35°	3784	3711	3670
40°	3664	3579	3535
45°	3538	3438	3387
50°	3394	3289	3231
55°	3245	3131	3073
60°	3078	2955	2900
65°	2897	2761	2705
70°	2695	2550	2487
75°	2445	2308	2270
80°	2118	2005	2016
85°	1748	1724	1612

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3538 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.2	3.7
10°-20°	829.9	10.6
20°-30°	1223.0	15.6
30°-40°	1415.8	18.1
40°-50°	1397.8	17.9
50°-60°	1197.3	15.3
60°-70°	865.6	11.1
70°-80°	477.2	6.1
80°-90°	128.5	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°	2346.1	30.0
0°-40°	3761.9	48.1
0°-60°	6356.9	81.2
0°-90°	7828.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7828.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3105	3105	3105	3105	3105	
5°	3093	3091	3090	3087	3087	294
15°	2955	2952	2944	2940	2937	833
25°	2683	2675	2653	2640	2633	1235
35°	2304	2289	2259	2240	2234	1440
45°	1860	1835	1807	1789	1780	1433
55°	1383	1357	1335	1316	1310	1236
65°	910	889	867	854	850	902
75°	470	456	444	442	437	499
85°	113	113	112	104	104	133
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3104.7	3104.7	3104.7	3104.7	3104.7
2.5°	3104.7	3104.7	3101.7	3101.7	3101.7
5°	3092.9	3091.4	3090.0	3087.0	3087.0
7.5°	3070.9	3070.9	3066.4	3066.4	3063.5
10°	3042.9	3040.0	3035.6	3035.6	3032.6
12.5°	3003.2	3000.3	2994.4	2992.9	2988.5
15°	2954.7	2951.8	2944.4	2940.0	2937.1
17.5°	2898.9	2894.5	2885.6	2878.3	2872.4
20°	2835.7	2829.8	2816.5	2807.7	2800.4
22.5°	2763.6	2757.7	2738.6	2728.3	2721.0
25°	2682.8	2675.4	2653.4	2640.1	2632.8
27.5°	2596.0	2587.2	2562.2	2547.5	2540.2
30°	2506.4	2493.1	2468.2	2450.5	2444.6
32.5°	2406.4	2393.2	2368.2	2347.6	2341.7
35°	2303.5	2288.8	2259.4	2240.3	2234.4
37.5°	2197.7	2178.6	2152.1	2133.0	2124.2
40°	2085.9	2066.8	2037.4	2016.9	2012.4
42.5°	1974.2	1950.7	1925.7	1905.1	1896.3
45°	1859.6	1834.6	1806.6	1789.0	1780.2
47.5°	1739.0	1715.5	1690.5	1669.9	1662.6
50°	1621.4	1596.4	1571.4	1552.3	1543.5
52.5°	1500.9	1475.9	1452.4	1436.2	1427.4
55°	1383.3	1356.8	1334.8	1315.7	1309.8
57.5°	1264.2	1240.7	1215.7	1198.1	1193.7
60°	1143.7	1123.1	1098.1	1081.9	1077.5
62.5°	1027.5	1007.0	983.4	967.3	959.9
65°	909.9	889.4	867.3	854.1	849.7
67.5°	795.3	776.2	757.1	743.8	740.9
70°	685.0	665.9	648.3	636.5	632.1
72.5°	574.8	561.5	543.9	536.6	532.1
75°	470.4	455.7	443.9	442.5	436.6
77.5°	369.0	367.5	348.4	345.5	345.5
80°	273.4	269.0	258.7	255.8	260.2
82.5°	188.2	185.2	179.3	177.9	176.4
85°	113.2	113.2	111.7	104.4	104.4
87.5°	51.5	50.0	48.5	50.0	54.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)