

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: P995585

Luminaire Tested: 24D3X-LP-WD-30-L940.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995585
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-30-L940.ies
Description: 2x4 D3X-LP AT 3000LM 4000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

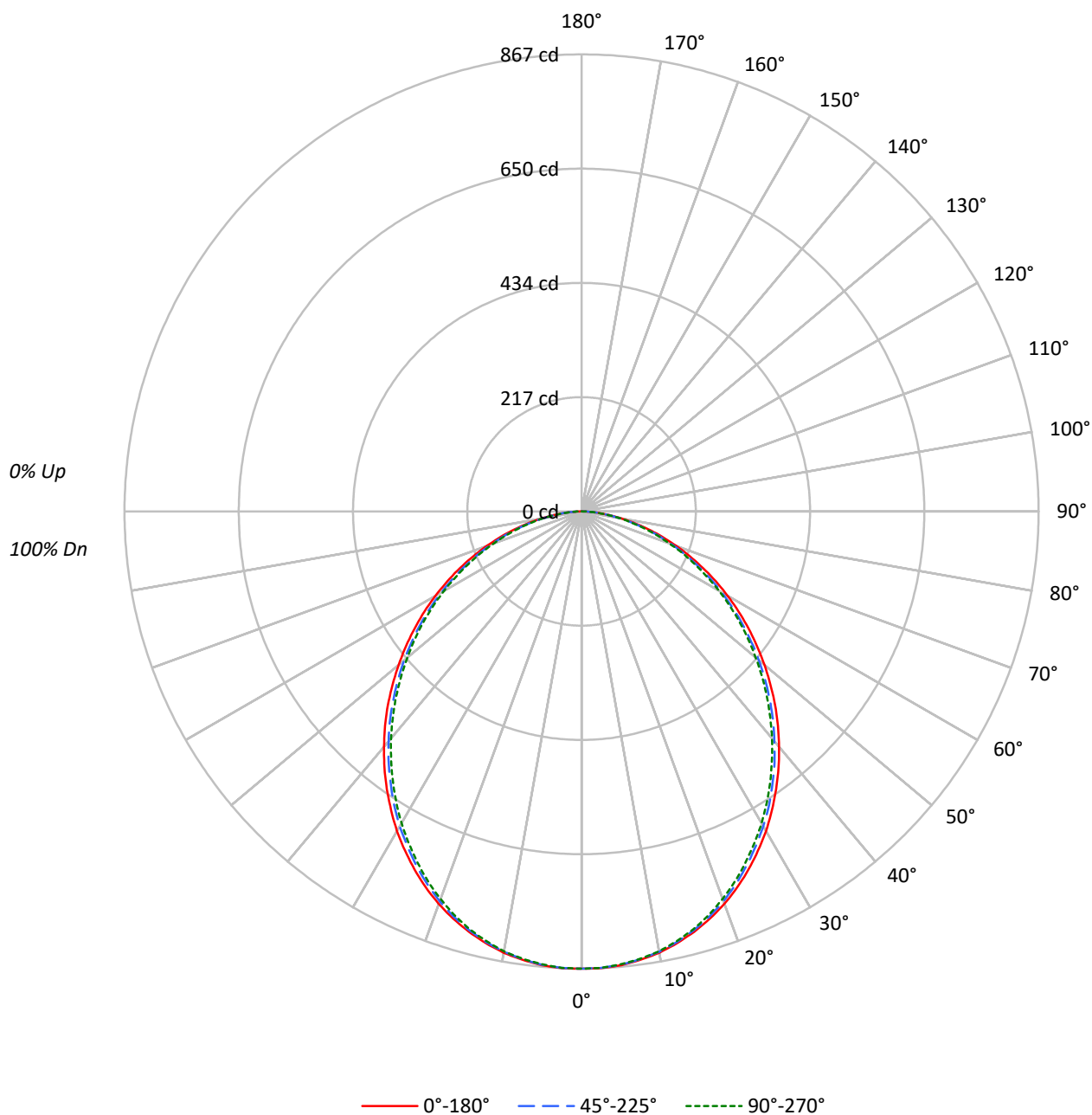
Lumens per Lamp: N/A
Luminaire Lumens: 2187.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					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		
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°	1167	1167	1167
5°	1167	1166	1165
10°	1161	1159	1157
15°	1150	1146	1143
20°	1134	1127	1120
25°	1113	1101	1092
30°	1088	1071	1061
35°	1057	1037	1025
40°	1024	1000	987
45°	989	960	946
50°	948	919	903
55°	907	875	858
60°	860	826	810
65°	809	771	756
70°	753	712	695
75°	683	645	634
80°	592	560	563
85°	488	482	451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 989 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	3.7
10°-20°	231.8	10.6
20°-30°	341.7	15.6
30°-40°	395.5	18.1
40°-50°	390.5	17.9
50°-60°	334.5	15.3
60°-70°	241.8	11.1
70°-80°	133.3	6.1
80°-90°	35.9	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°	655.4	30.0
0°-40°	1051.0	48.1
0°-60°	1776.0	81.2
0°-90°	2187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2187.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	864	864	863	862	862	82
15°	826	825	823	821	820	233
25°	750	747	741	738	736	345
35°	644	639	631	626	624	402
45°	520	512	505	500	497	400
55°	386	379	373	368	366	345
65°	254	248	242	239	237	252
75°	131	127	124	124	122	139
85°	32	32	31	29	29	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.4	867.4	867.4	867.4	867.4
2.5°	867.4	867.4	866.5	866.5	866.5
5°	864.1	863.7	863.3	862.4	862.4
7.5°	857.9	857.9	856.7	856.7	855.9
10°	850.1	849.3	848.1	848.1	847.2
12.5°	839.0	838.2	836.6	836.2	834.9
15°	825.5	824.7	822.6	821.4	820.5
17.5°	809.9	808.6	806.2	804.1	802.5
20°	792.2	790.6	786.9	784.4	782.4
22.5°	772.1	770.4	765.1	762.2	760.2
25°	749.5	747.4	741.3	737.6	735.5
27.5°	725.3	722.8	715.8	711.7	709.7
30°	700.2	696.5	689.5	684.6	683.0
32.5°	672.3	668.6	661.6	655.9	654.2
35°	643.5	639.4	631.2	625.9	624.2
37.5°	614.0	608.6	601.2	595.9	593.4
40°	582.8	577.4	569.2	563.5	562.2
42.5°	551.5	545.0	538.0	532.2	529.8
45°	519.5	512.5	504.7	499.8	497.3
47.5°	485.8	479.3	472.3	466.5	464.5
50°	453.0	446.0	439.0	433.7	431.2
52.5°	419.3	412.3	405.8	401.2	398.8
55°	386.5	379.1	372.9	367.6	365.9
57.5°	353.2	346.6	339.6	334.7	333.5
60°	319.5	313.8	306.8	302.3	301.0
62.5°	287.1	281.3	274.7	270.2	268.2
65°	254.2	248.5	242.3	238.6	237.4
67.5°	222.2	216.8	211.5	207.8	207.0
70°	191.4	186.0	181.1	177.8	176.6
72.5°	160.6	156.9	152.0	149.9	148.7
75°	131.4	127.3	124.0	123.6	122.0
77.5°	103.1	102.7	97.3	96.5	96.5
80°	76.4	75.2	72.3	71.5	72.7
82.5°	52.6	51.7	50.1	49.7	49.3
85°	31.6	31.6	31.2	29.2	29.2
87.5°	14.4	14.0	13.6	14.0	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)