

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: P995481

Luminaire Tested: 22D3X-LP-WD-20-L840.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995481
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-20-L840.ies
Description: 2x2 D3X-LP AT 2000LM 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

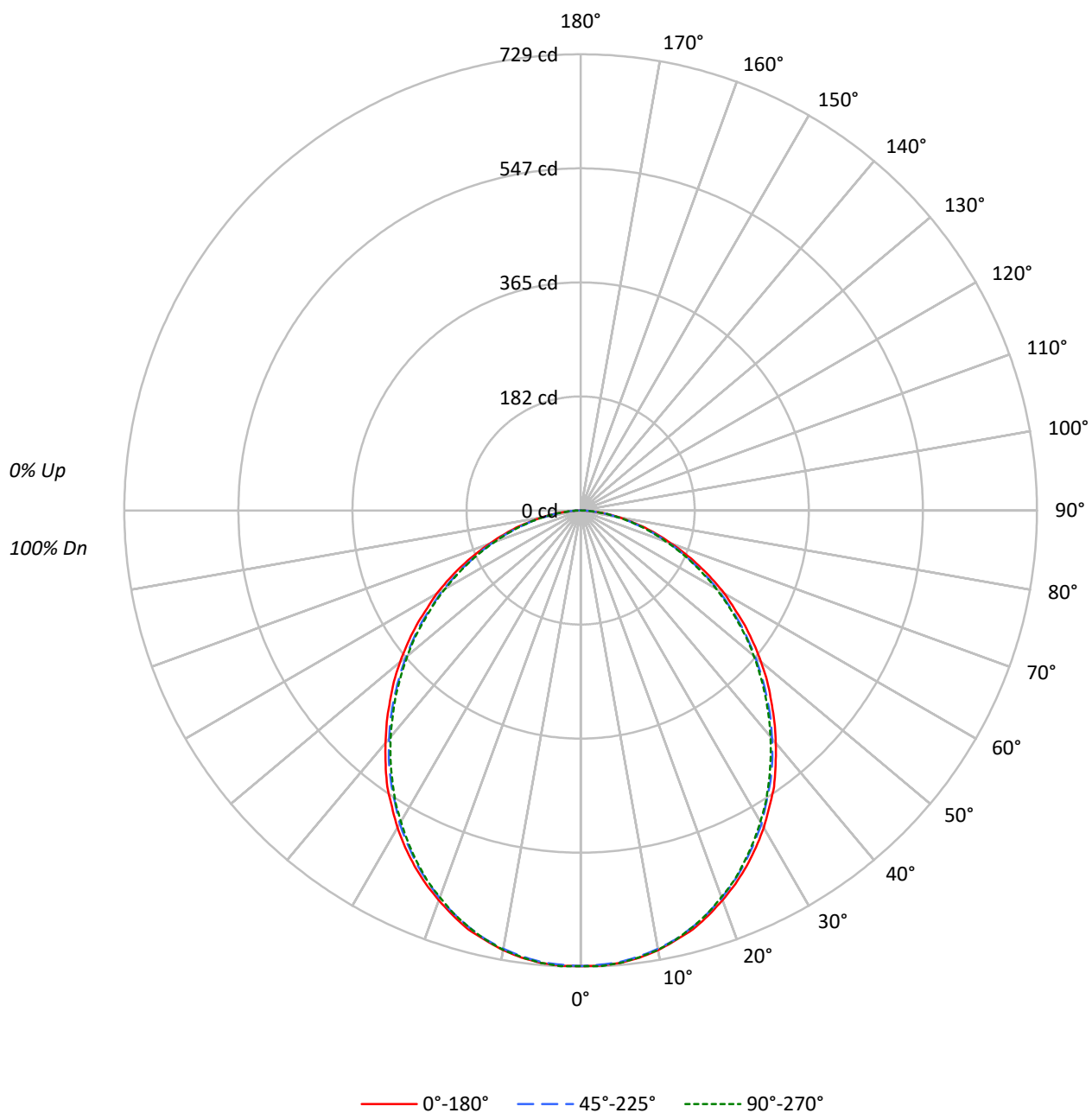
Lumens per Lamp: N/A
Luminaire Lumens: 1818.8 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.1
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45		
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36		
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	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°	1959	1959	1959
5°	1960	1957	1960
10°	1949	1943	1947
15°	1931	1921	1921
20°	1897	1887	1883
25°	1862	1845	1838
30°	1818	1795	1784
35°	1770	1736	1724
40°	1704	1671	1658
45°	1639	1600	1587
50°	1575	1523	1511
55°	1503	1449	1429
60°	1428	1365	1346
65°	1330	1265	1251
70°	1215	1169	1141
75°	1108	1040	1048
80°	955	899	910
85°	738	716	670

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1639 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	3.8
10°-20°	194.4	10.7
20°-30°	286.3	15.7
30°-40°	331.2	18.2
40°-50°	325.6	17.9
50°-60°	277.5	15.3
60°-70°	198.8	10.9
70°-80°	108.0	5.9
80°-90°	28.2	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°	549.5	30.2
0°-40°	880.7	48.4
0°-60°	1483.9	81.6
0°-90°	1818.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1818.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	726	724	724	724	726	69
15°	693	690	690	689	690	195
25°	627	624	621	620	619	289
35°	539	534	528	526	525	336
45°	431	428	420	417	417	333
55°	320	315	309	305	304	286
65°	209	204	199	196	196	207
75°	107	103	100	99	101	113
85°	24	24	23	22	22	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	727.9	727.9	727.9	727.9	727.9
2.5°	727.9	727.2	726.4	727.2	728.6
5°	725.7	724.3	724.3	724.3	725.7
7.5°	720.6	719.2	718.5	719.2	719.9
10°	713.4	711.9	711.2	711.9	712.7
12.5°	703.2	702.5	701.8	701.8	702.5
15°	693.1	690.2	689.5	688.7	689.5
17.5°	678.6	677.9	675.0	675.0	675.0
20°	662.6	661.2	659.0	657.6	657.6
22.5°	646.0	644.5	640.9	639.4	640.2
25°	627.1	624.2	621.3	619.9	619.1
27.5°	606.8	603.9	599.6	597.4	597.4
30°	585.1	582.9	577.8	574.9	574.2
32.5°	561.1	559.7	552.4	551.0	551.0
35°	538.7	534.3	528.5	525.6	524.9
37.5°	511.8	508.9	503.1	499.5	498.8
40°	485.0	481.4	475.6	472.7	472.0
42.5°	458.2	454.6	448.8	445.1	444.4
45°	430.6	427.7	420.5	416.9	416.9
47.5°	404.5	398.7	392.2	389.3	388.6
50°	376.3	371.2	363.9	361.0	361.0
52.5°	348.0	344.4	336.4	334.9	333.5
55°	320.4	314.6	308.8	305.2	304.5
57.5°	290.7	285.6	279.8	276.9	276.9
60°	265.3	258.8	253.7	250.1	250.1
62.5°	236.3	230.5	225.5	223.3	222.6
65°	208.8	204.4	198.6	196.5	196.5
67.5°	181.2	177.6	172.5	170.4	171.1
70°	154.4	152.2	148.6	145.7	145.0
72.5°	129.8	126.9	123.2	122.5	122.5
75°	106.6	102.9	100.0	98.6	100.8
77.5°	82.6	80.5	79.0	78.3	79.0
80°	61.6	58.7	58.0	58.7	58.7
82.5°	42.8	41.3	40.6	40.6	40.6
85°	23.9	23.9	23.2	22.5	21.7
87.5°	9.4	9.4	10.1	10.1	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)