

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: P995563

Luminaire Tested: 22D3X-LP-WD-70-L850.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995563
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-70-L850.ies
Description: 2x2 D3X-LP AT 7000LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

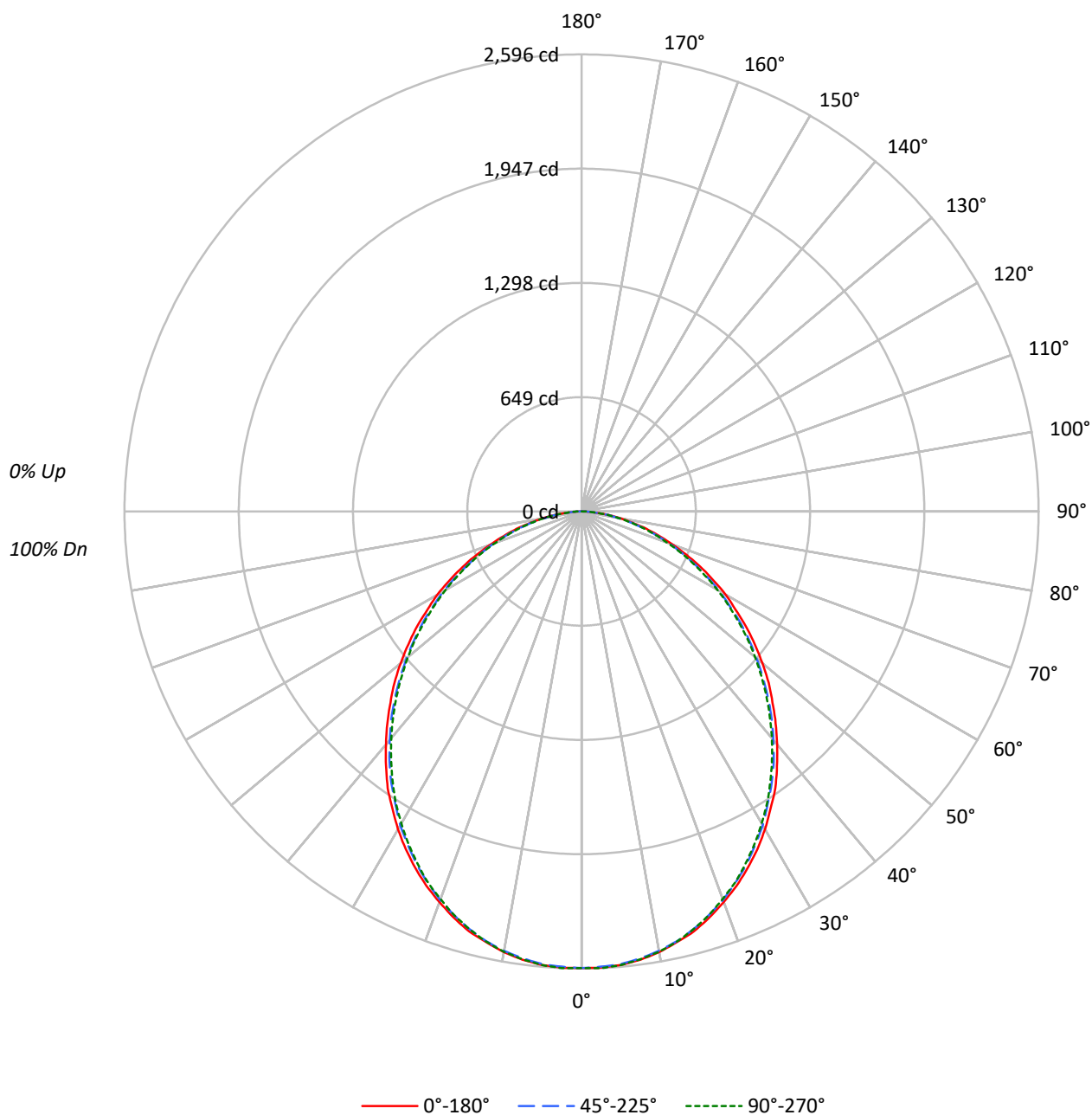
Lumens per Lamp: N/A
Luminaire Lumens: 6481.2 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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	69	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°	6979	6979	6979
5°	6985	6971	6985
10°	6946	6925	6939
15°	6880	6844	6844
20°	6761	6724	6710
25°	6635	6573	6550
30°	6478	6398	6357
35°	6305	6186	6144
40°	6071	5953	5908
45°	5840	5702	5653
50°	5613	5429	5386
55°	5357	5163	5090
60°	5089	4866	4796
65°	4737	4507	4458
70°	4329	4167	4065
75°	3948	3707	3734
80°	3403	3203	3242
85°	2631	2553	2393

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5840 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.0	3.8
10°-20°	692.7	10.7
20°-30°	1020.3	15.7
30°-40°	1180.3	18.2
40°-50°	1160.3	17.9
50°-60°	988.9	15.3
60°-70°	708.5	10.9
70°-80°	384.8	5.9
80°-90°	100.4	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°	1958.0	30.2
0°-40°	3138.3	48.4
0°-60°	5287.4	81.6
0°-90°	6481.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6481.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2594	2594	2594	2594	2594	
5°	2586	2581	2581	2581	2586	245
15°	2470	2459	2457	2454	2457	695
25°	2234	2224	2214	2209	2206	1029
35°	1919	1904	1883	1873	1870	1197
45°	1534	1524	1498	1485	1485	1185
55°	1142	1121	1100	1088	1085	1020
65°	744	728	708	700	700	737
75°	380	367	356	351	359	401
85°	85	85	83	80	78	104
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2593.6	2593.6	2593.6	2593.6	2593.6
2.5°	2593.6	2591.0	2588.4	2591.0	2596.2
5°	2585.9	2580.7	2580.7	2580.7	2585.9
7.5°	2567.8	2562.6	2560.0	2562.6	2565.2
10°	2541.9	2536.8	2534.2	2536.8	2539.4
12.5°	2505.8	2503.2	2500.6	2500.6	2503.2
15°	2469.6	2459.3	2456.7	2454.1	2456.7
17.5°	2417.9	2415.4	2405.0	2405.0	2405.0
20°	2361.1	2356.0	2348.2	2343.0	2343.0
22.5°	2301.7	2296.5	2283.6	2278.5	2281.0
25°	2234.5	2224.2	2213.9	2208.7	2206.1
27.5°	2162.2	2151.9	2136.4	2128.6	2128.6
30°	2084.7	2077.0	2058.9	2048.5	2046.0
32.5°	1999.5	1994.3	1968.5	1963.3	1963.3
35°	1919.4	1903.9	1883.2	1872.9	1870.3
37.5°	1823.8	1813.5	1792.8	1779.9	1777.3
40°	1728.2	1715.3	1694.6	1684.3	1681.7
42.5°	1632.6	1619.7	1599.0	1586.1	1583.5
45°	1534.5	1524.1	1498.3	1485.4	1485.4
47.5°	1441.5	1420.8	1397.6	1387.2	1384.6
50°	1340.7	1322.6	1296.8	1286.5	1286.5
52.5°	1240.0	1227.1	1198.6	1193.5	1188.3
55°	1141.8	1121.1	1100.5	1087.6	1085.0
57.5°	1035.9	1017.8	997.1	986.8	986.8
60°	945.5	922.2	904.1	891.2	891.2
62.5°	842.1	821.5	803.4	795.6	793.1
65°	744.0	728.5	707.8	700.1	700.1
67.5°	645.8	632.9	614.8	607.1	609.7
70°	550.2	542.5	529.6	519.2	516.7
72.5°	462.4	452.1	439.2	436.6	436.6
75°	379.7	366.8	356.5	351.3	359.1
77.5°	294.5	286.7	281.6	279.0	281.6
80°	219.6	209.2	206.7	209.2	209.2
82.5°	152.4	147.2	144.7	144.7	144.7
85°	85.2	85.2	82.7	80.1	77.5
87.5°	33.6	33.6	36.2	36.2	38.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)