

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: P601182

Luminaire Tested: 24D3X-LP-60-L830

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601182  
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-60-L830  
Description: 2x4 D3X-LP AT 6000LM 3000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

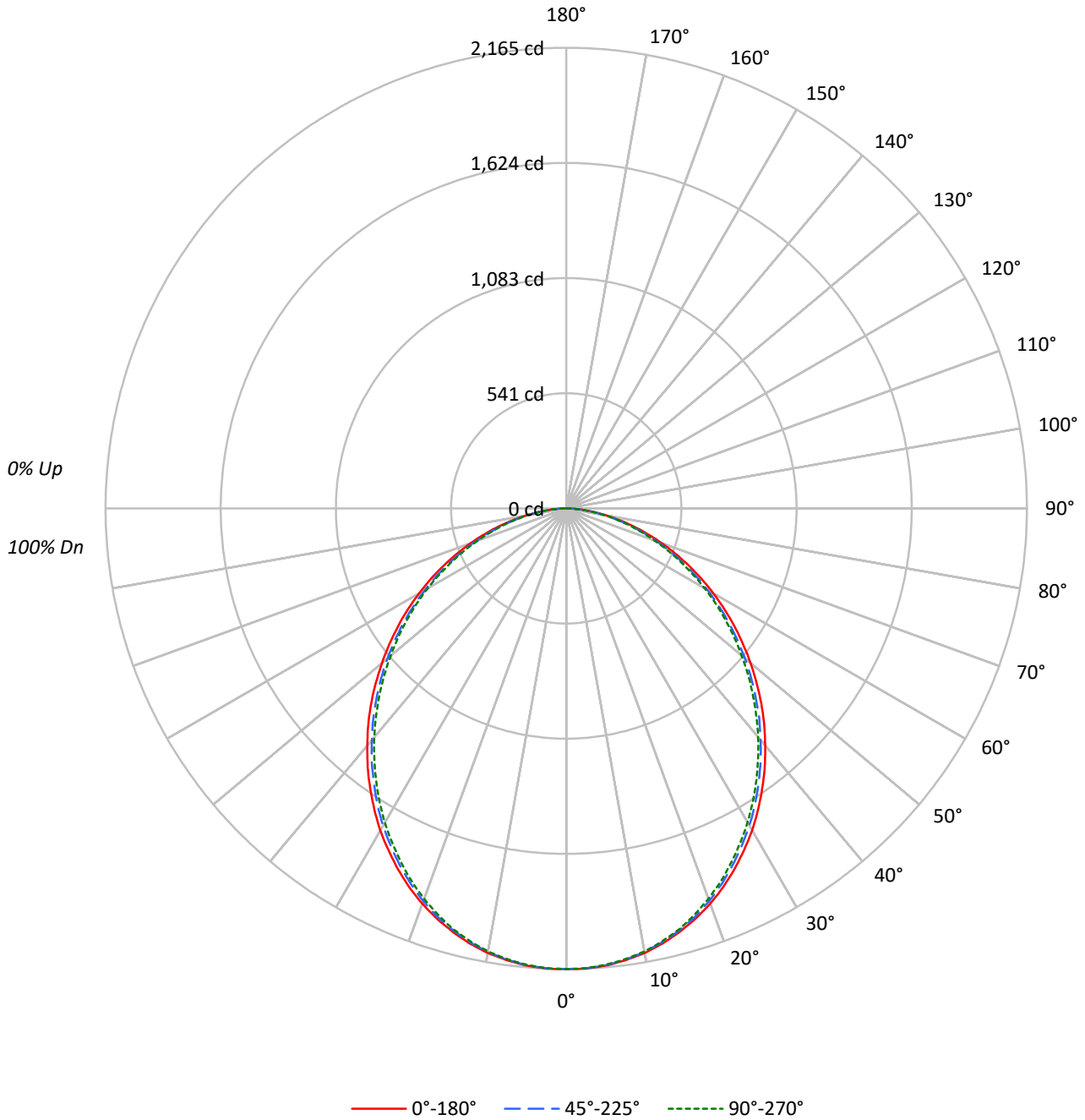
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5459.0 lumens  
Efficiency: N/A  
Efficacy: 121.6 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): 44.9  
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				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	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°	2913	2913	2913
5°	2913	2910	2907
10°	2899	2892	2889
15°	2870	2860	2853
20°	2831	2812	2796
25°	2777	2747	2726
30°	2715	2674	2649
35°	2639	2588	2559
40°	2555	2496	2465
45°	2468	2397	2362
50°	2367	2294	2253
55°	2263	2183	2143
60°	2146	2061	2022
65°	2020	1926	1886
70°	1879	1779	1734
75°	1705	1609	1583
80°	1478	1398	1406
85°	1218	1203	1124

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2468 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.5	3.7
10°-20°	578.7	10.6
20°-30°	852.9	15.6
30°-40°	987.3	18.1
40°-50°	974.7	17.9
50°-60°	834.9	15.3
60°-70°	603.6	11.1
70°-80°	332.8	6.1
80°-90°	89.6	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°	1636.1	30.0
0°-40°	2623.4	48.1
0°-60°	4433.0	81.2
0°-90°	5459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5459.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2165	2165	2165	2165	2165	
5°	2157	2156	2155	2153	2153	205
15°	2060	2058	2053	2050	2048	581
25°	1871	1866	1850	1841	1836	861
35°	1606	1596	1576	1562	1558	1004
45°	1297	1279	1260	1248	1241	999
55°	965	946	931	918	913	862
65°	634	620	605	596	592	629
75°	328	318	310	309	304	348
85°	79	79	78	73	73	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2165.0	2165.0	2165.0	2165.0	2165.0
2.5°	2165.0	2165.0	2163.0	2163.0	2163.0
5°	2156.8	2155.8	2154.8	2152.7	2152.7
7.5°	2141.5	2141.5	2138.4	2138.4	2136.3
10°	2122.0	2119.9	2116.9	2116.9	2114.8
12.5°	2094.3	2092.3	2088.2	2087.1	2084.1
15°	2060.5	2058.4	2053.3	2050.2	2048.2
17.5°	2021.5	2018.5	2012.3	2007.2	2003.1
20°	1977.4	1973.3	1964.1	1958.0	1952.8
22.5°	1927.2	1923.1	1909.8	1902.6	1897.5
25°	1870.8	1865.7	1850.3	1841.1	1836.0
27.5°	1810.4	1804.2	1786.8	1776.5	1771.4
30°	1747.8	1738.6	1721.2	1708.9	1704.8
32.5°	1678.1	1668.9	1651.5	1637.1	1633.0
35°	1606.4	1596.1	1575.6	1562.3	1558.2
37.5°	1532.5	1519.2	1500.8	1487.4	1481.3
40°	1454.6	1441.3	1420.8	1406.5	1403.4
42.5°	1376.7	1360.3	1342.9	1328.5	1322.4
45°	1296.8	1279.3	1259.9	1247.6	1241.4
47.5°	1212.7	1196.3	1178.9	1164.5	1159.4
50°	1130.7	1113.3	1095.8	1082.5	1076.4
52.5°	1046.6	1029.2	1012.8	1001.5	995.4
55°	964.6	946.2	930.8	917.5	913.4
57.5°	881.6	865.2	847.8	835.5	832.4
60°	797.5	783.2	765.8	754.5	751.4
62.5°	716.6	702.2	685.8	674.5	669.4
65°	634.5	620.2	604.8	595.6	592.5
67.5°	554.6	541.3	527.9	518.7	516.7
70°	477.7	464.4	452.1	443.9	440.8
72.5°	400.8	391.6	379.3	374.2	371.1
75°	328.0	317.8	309.6	308.6	304.5
77.5°	257.3	256.3	243.0	240.9	240.9
80°	190.7	187.6	180.4	178.4	181.4
82.5°	131.2	129.2	125.1	124.0	123.0
85°	78.9	78.9	77.9	72.8	72.8
87.5°	35.9	34.9	33.8	34.9	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)