

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: P601176

Luminaire Tested: 24D3X-LP-55-L830

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601176
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-55-L830
Description: 2x4 D3X-LP AT 5500LM 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

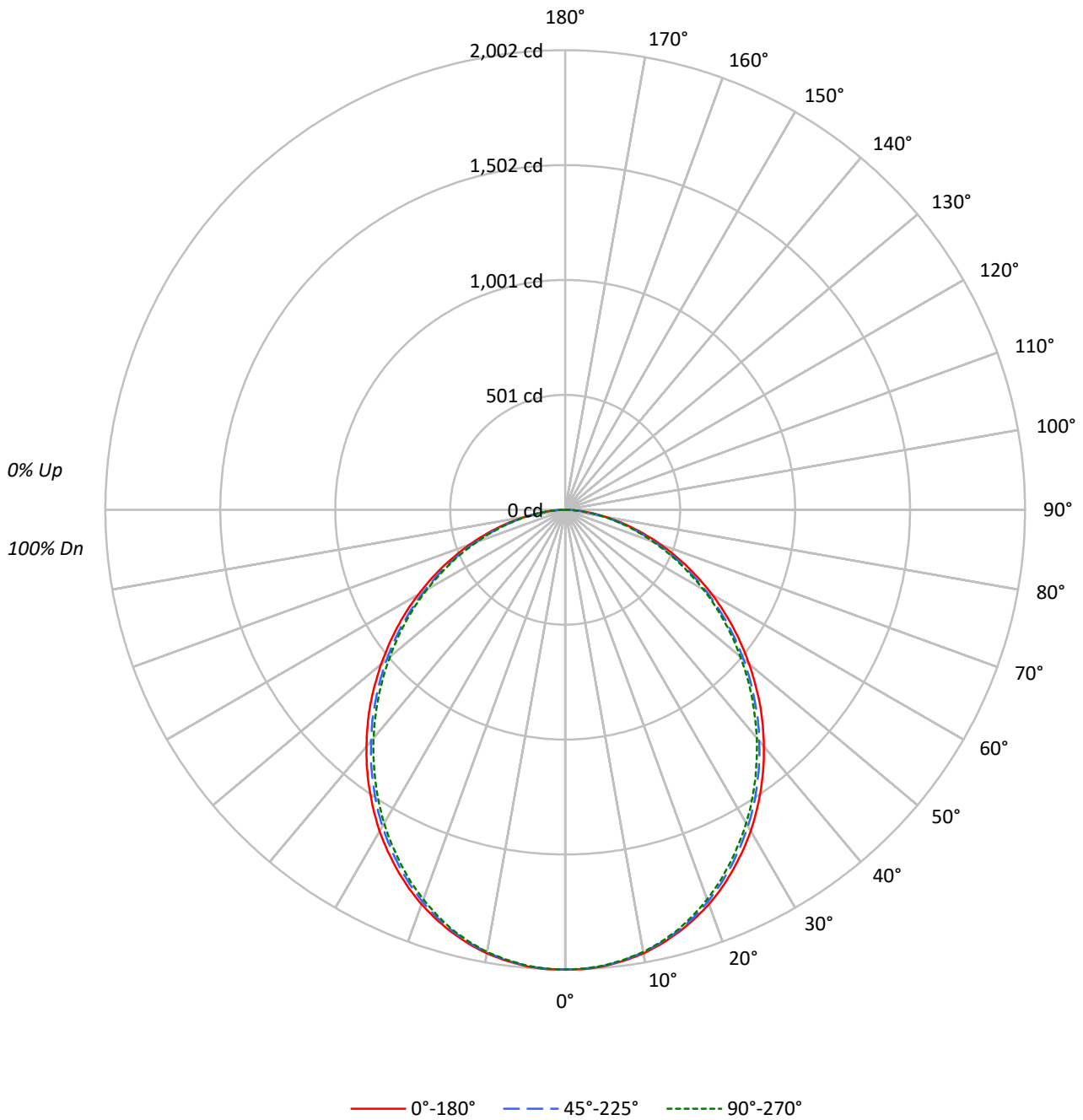
Lumens per Lamp: N/A
Luminaire Lumens: 5049.0 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.2
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	2694	2694	2694
5°	2694	2692	2689
10°	2681	2675	2672
15°	2655	2645	2639
20°	2619	2601	2586
25°	2569	2541	2521
30°	2511	2473	2450
35°	2440	2394	2367
40°	2363	2308	2280
45°	2282	2217	2185
50°	2189	2121	2084
55°	2093	2019	1982
60°	1985	1906	1870
65°	1869	1781	1745
70°	1738	1645	1604
75°	1577	1488	1464
80°	1367	1293	1300
85°	1127	1113	1039

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2282 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	3.7
10°-20°	535.2	10.6
20°-30°	788.8	15.6
30°-40°	913.2	18.1
40°-50°	901.5	17.9
50°-60°	772.2	15.3
60°-70°	558.3	11.1
70°-80°	307.8	6.1
80°-90°	82.9	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°	1513.2	30.0
0°-40°	2426.3	48.1
0°-60°	4100.1	81.2
0°-90°	5049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5049.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2002	2002	2002	2002	2002	
5°	1995	1994	1993	1991	1991	189
15°	1906	1904	1899	1896	1894	537
25°	1730	1726	1711	1703	1698	797
35°	1486	1476	1457	1445	1441	929
45°	1199	1183	1165	1154	1148	924
55°	892	875	861	849	845	797
65°	587	574	559	551	548	582
75°	303	294	286	285	282	322
85°	73	73	72	67	67	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2002.4	2002.4	2002.4	2002.4	2002.4
2.5°	2002.4	2002.4	2000.5	2000.5	2000.5
5°	1994.9	1993.9	1993.0	1991.1	1991.1
7.5°	1980.6	1980.6	1977.8	1977.8	1975.9
10°	1962.6	1960.7	1957.9	1957.9	1956.0
12.5°	1937.0	1935.1	1931.3	1930.4	1927.5
15°	1905.7	1903.8	1899.1	1896.2	1894.3
17.5°	1869.7	1866.9	1861.2	1856.4	1852.6
20°	1828.9	1825.1	1816.6	1810.9	1806.2
22.5°	1782.5	1778.7	1766.4	1759.7	1755.0
25°	1730.3	1725.6	1711.4	1702.8	1698.1
27.5°	1674.4	1668.7	1652.6	1643.1	1638.4
30°	1616.5	1608.0	1591.9	1580.5	1576.7
32.5°	1552.1	1543.5	1527.4	1514.2	1510.4
35°	1485.7	1476.2	1457.3	1444.9	1441.1
37.5°	1417.4	1405.1	1388.1	1375.7	1370.0
40°	1345.4	1333.1	1314.1	1300.8	1298.0
42.5°	1273.3	1258.2	1242.0	1228.8	1223.1
45°	1199.4	1183.3	1165.2	1153.9	1148.2
47.5°	1121.6	1106.5	1090.3	1077.1	1072.3
50°	1045.8	1029.7	1013.5	1001.2	995.5
52.5°	968.0	951.9	936.7	926.3	920.6
55°	892.2	875.1	860.9	848.6	844.8
57.5°	815.4	800.2	784.1	772.7	769.9
60°	737.6	724.4	708.2	697.8	695.0
62.5°	662.7	649.5	634.3	623.9	619.1
65°	586.9	573.6	559.4	550.9	548.0
67.5°	512.9	500.6	488.3	479.8	477.9
70°	441.8	429.5	418.1	410.5	407.7
72.5°	370.7	362.2	350.8	346.1	343.2
75°	303.4	293.9	286.3	285.4	281.6
77.5°	238.0	237.0	224.7	222.8	222.8
80°	176.4	173.5	166.9	165.0	167.8
82.5°	121.4	119.5	115.7	114.7	113.8
85°	73.0	73.0	72.1	67.3	67.3
87.5°	33.2	32.2	31.3	32.2	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)