

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: P601177

Luminaire Tested: 24D3X-LP-55-L835

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601177
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-L835
Description: 2x4 D3X-LP AT 5500LM 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

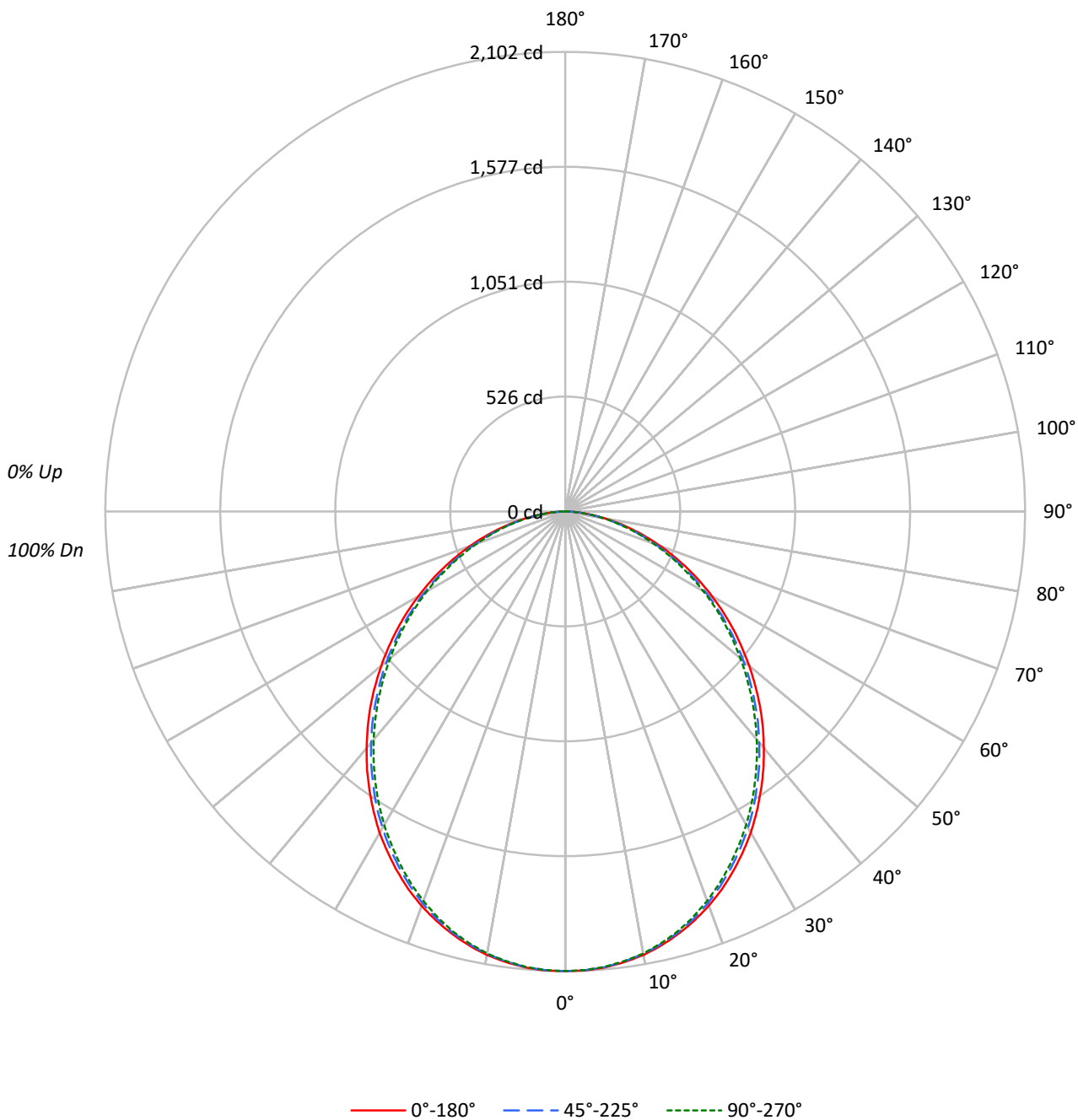
Lumens per Lamp: N/A
Luminaire Lumens: 5299.0 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	31	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°	2828	2828	2828
5°	2828	2825	2822
10°	2814	2807	2805
15°	2786	2776	2769
20°	2748	2730	2714
25°	2696	2666	2646
30°	2636	2596	2571
35°	2561	2512	2484
40°	2480	2422	2393
45°	2395	2327	2293
50°	2298	2227	2187
55°	2197	2119	2080
60°	2083	2000	1963
65°	1961	1869	1831
70°	1824	1726	1683
75°	1655	1562	1536
80°	1434	1357	1364
85°	1183	1167	1090

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2395 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	3.7
10°-20°	561.8	10.6
20°-30°	827.9	15.6
30°-40°	958.4	18.1
40°-50°	946.2	17.9
50°-60°	810.4	15.3
60°-70°	585.9	11.1
70°-80°	323.0	6.1
80°-90°	87.0	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°	1588.1	30.0
0°-40°	2546.5	48.1
0°-60°	4303.1	81.2
0°-90°	5299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5299.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2102	2102	2102	2102	2102	
5°	2094	2093	2092	2090	2090	199
15°	2000	1998	1993	1990	1988	564
25°	1816	1811	1796	1787	1782	836
35°	1559	1549	1529	1516	1512	975
45°	1259	1242	1223	1211	1205	970
55°	936	918	904	891	887	837
65°	616	602	587	578	575	611
75°	318	308	300	300	296	338
85°	77	77	76	71	71	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2101.6	2101.6	2101.6	2101.6	2101.6
2.5°	2101.6	2101.6	2099.6	2099.6	2099.6
5°	2093.6	2092.6	2091.6	2089.6	2089.6
7.5°	2078.7	2078.7	2075.7	2075.7	2073.7
10°	2059.8	2057.8	2054.8	2054.8	2052.8
12.5°	2032.9	2030.9	2027.0	2026.0	2023.0
15°	2000.1	1998.1	1993.1	1990.1	1988.1
17.5°	1962.3	1959.3	1953.3	1948.3	1944.4
20°	1919.5	1915.5	1906.6	1900.6	1895.6
22.5°	1870.7	1866.7	1853.8	1846.8	1841.9
25°	1816.0	1811.0	1796.1	1787.1	1782.2
27.5°	1757.3	1751.3	1734.4	1724.5	1719.5
30°	1696.6	1687.6	1670.7	1658.8	1654.8
32.5°	1628.9	1620.0	1603.1	1589.1	1585.1
35°	1559.3	1549.3	1529.4	1516.5	1512.5
37.5°	1487.6	1474.7	1456.8	1443.8	1437.9
40°	1412.0	1399.1	1379.2	1365.2	1362.2
42.5°	1336.4	1320.5	1303.5	1289.6	1283.6
45°	1258.8	1241.8	1222.9	1211.0	1205.0
47.5°	1177.2	1161.2	1144.3	1130.4	1125.4
50°	1097.6	1080.6	1063.7	1050.8	1044.8
52.5°	1016.0	999.0	983.1	972.2	966.2
55°	936.4	918.4	903.5	890.6	886.6
57.5°	855.8	839.8	822.9	811.0	808.0
60°	774.2	760.2	743.3	732.4	729.4
62.5°	695.6	681.6	665.7	654.8	649.8
65°	615.9	602.0	587.1	578.1	575.1
67.5°	538.3	525.4	512.5	503.5	501.5
70°	463.7	450.8	438.8	430.9	427.9
72.5°	389.1	380.1	368.2	363.2	360.2
75°	318.4	308.5	300.5	299.5	295.5
77.5°	249.8	248.8	235.8	233.8	233.8
80°	185.1	182.1	175.1	173.1	176.1
82.5°	127.4	125.4	121.4	120.4	119.4
85°	76.6	76.6	75.6	70.6	70.6
87.5°	34.8	33.8	32.8	33.8	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)