

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: P601165

Luminaire Tested: 24D3X-LP-45-L835

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601165
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-45-L835
Description: 2x4 D3X-LP AT 4500LM 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

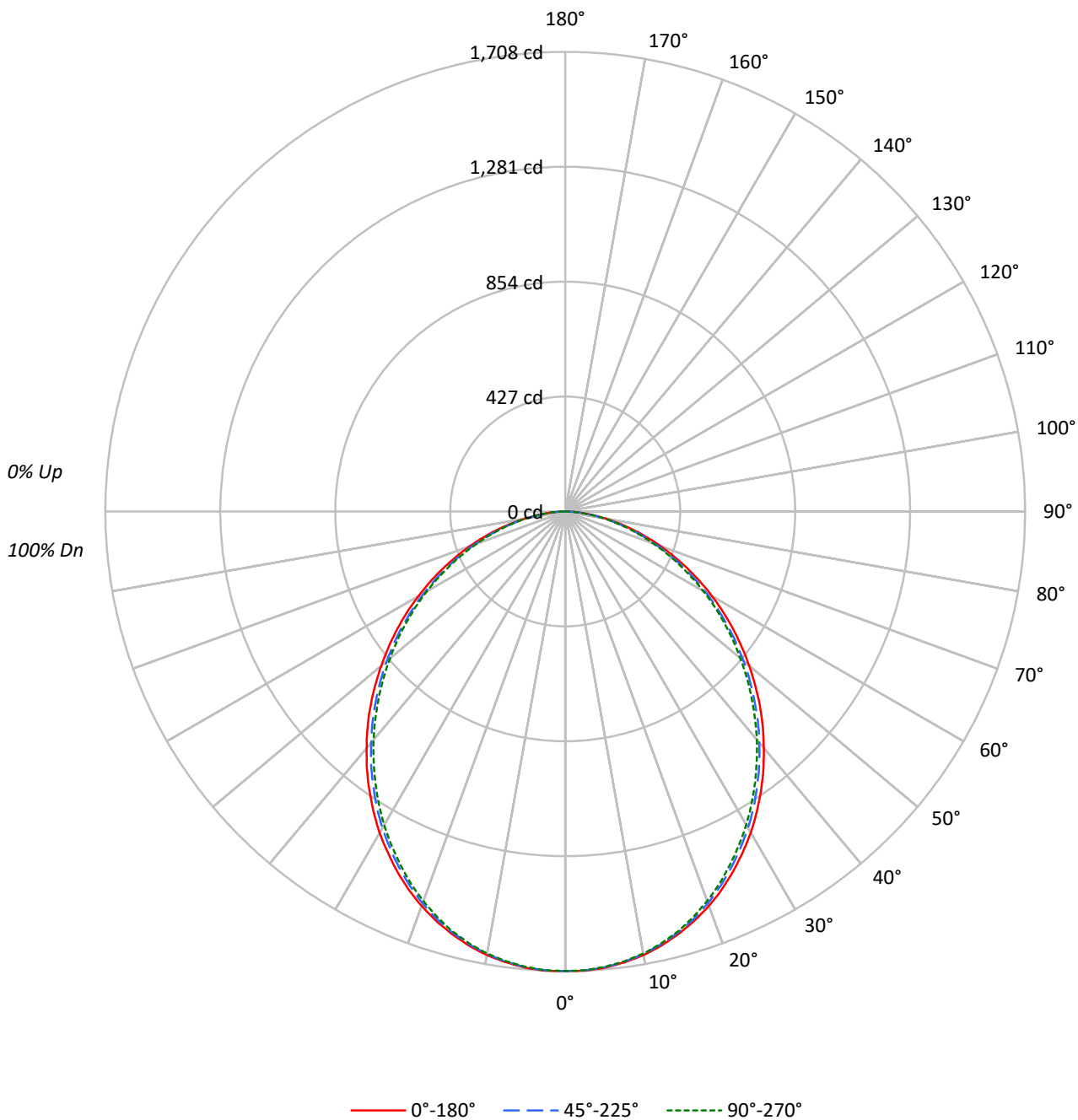
Lumens per Lamp: N/A
Luminaire Lumens: 4307.0 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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



TEST NUMBER: P601165
CATALOG NUMBER: 24D3X-LP-45-L835

Luminous Intensity Polar Plot





TEST NUMBER: P601165
 CATALOG NUMBER: 24D3X-LP-45-L835

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°	2298	2298	2298
5°	2298	2296	2294
10°	2287	2282	2280
15°	2265	2257	2251
20°	2234	2219	2206
25°	2191	2167	2150
30°	2142	2110	2090
35°	2082	2042	2019
40°	2016	1969	1945
45°	1947	1891	1864
50°	1867	1810	1778
55°	1785	1723	1690
60°	1693	1626	1595
65°	1594	1519	1488
70°	1483	1403	1368
75°	1345	1270	1249
80°	1165	1103	1110
85°	962	949	886

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1947 cd/sqm



TEST NUMBER: P601165
 CATALOG NUMBER: 24D3X-LP-45-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	3.7
10°-20°	456.6	10.6
20°-30°	672.9	15.6
30°-40°	779.0	18.1
40°-50°	769.0	17.9
50°-60°	658.7	15.3
60°-70°	476.2	11.1
70°-80°	262.5	6.1
80°-90°	70.7	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°	1290.8	30.0
0°-40°	2069.8	48.1
0°-60°	3497.5	81.2
0°-90°	4307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1708	1708	1708	1708	1708	
5°	1702	1701	1700	1698	1698	162
15°	1626	1624	1620	1618	1616	458
25°	1476	1472	1460	1453	1448	680
35°	1267	1259	1243	1233	1229	792
45°	1023	1009	994	984	979	788
55°	761	746	734	724	721	680
65°	501	489	477	470	468	496
75°	259	251	244	243	240	275
85°	62	62	62	57	57	73
90°	0	0	0	0	0	



TEST NUMBER: P601165
 CATALOG NUMBER: 24D3X-LP-45-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1708.2	1708.2	1708.2	1708.2	1708.2
2.5°	1708.2	1708.2	1706.5	1706.5	1706.5
5°	1701.7	1700.9	1700.1	1698.5	1698.5
7.5°	1689.6	1689.6	1687.1	1687.1	1685.5
10°	1674.2	1672.6	1670.1	1670.1	1668.5
12.5°	1652.4	1650.7	1647.5	1646.7	1644.3
15°	1625.7	1624.0	1620.0	1617.6	1616.0
17.5°	1594.9	1592.5	1587.6	1583.6	1580.4
20°	1560.1	1556.9	1549.6	1544.8	1540.7
22.5°	1520.5	1517.3	1506.8	1501.1	1497.1
25°	1476.0	1472.0	1459.9	1452.6	1448.5
27.5°	1428.3	1423.5	1409.7	1401.6	1397.6
30°	1379.0	1371.7	1358.0	1348.2	1345.0
32.5°	1324.0	1316.7	1303.0	1291.6	1288.4
35°	1267.4	1259.3	1243.1	1232.6	1229.4
37.5°	1209.1	1198.6	1184.1	1173.5	1168.7
40°	1147.7	1137.2	1121.0	1109.7	1107.2
42.5°	1086.2	1073.3	1059.5	1048.2	1043.3
45°	1023.1	1009.4	994.0	984.3	979.4
47.5°	956.8	943.9	930.1	918.8	914.7
50°	892.1	878.3	864.6	854.1	849.2
52.5°	825.8	812.0	799.1	790.2	785.3
55°	761.1	746.5	734.4	723.9	720.6
57.5°	695.6	682.6	668.9	659.2	656.7
60°	629.2	617.9	604.2	595.3	592.8
62.5°	565.3	554.0	541.1	532.2	528.1
65°	500.6	489.3	477.2	469.9	467.5
67.5°	437.6	427.0	416.5	409.2	407.6
70°	376.9	366.4	356.7	350.2	347.8
72.5°	316.2	309.0	299.3	295.2	292.8
75°	258.8	250.7	244.3	243.4	240.2
77.5°	203.0	202.2	191.7	190.1	190.1
80°	150.4	148.0	142.3	140.7	143.2
82.5°	103.5	101.9	98.7	97.9	97.1
85°	62.3	62.3	61.5	57.4	57.4
87.5°	28.3	27.5	26.7	27.5	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)