

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: P601168

Luminaire Tested: 24D3X-LP-45-L935

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601168
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-L935
Description: 2x4 D3X-LP AT 4500LM 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

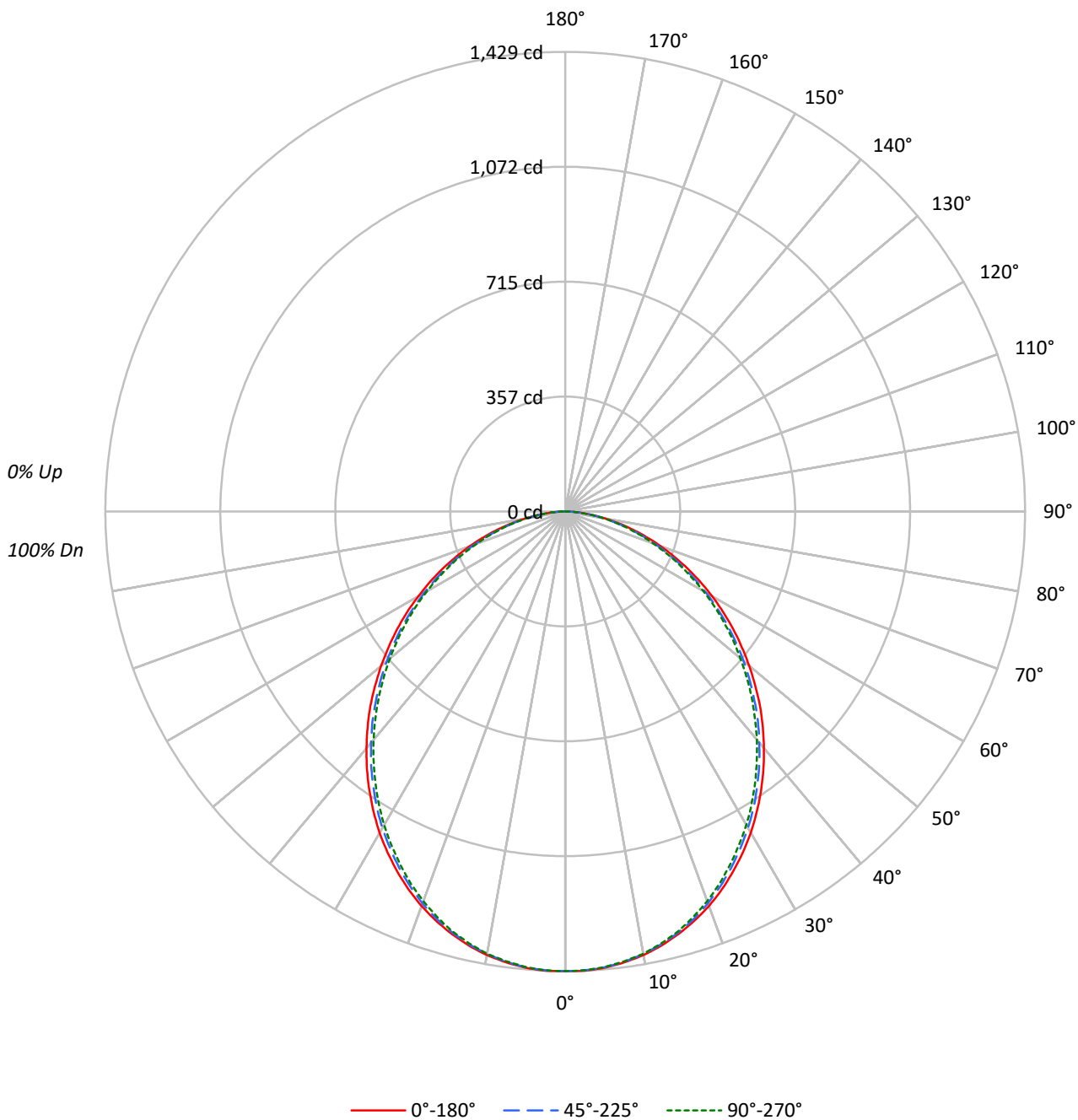
Lumens per Lamp: N/A
Luminaire Lumens: 3604.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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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°	1923	1923	1923
5°	1923	1921	1920
10°	1914	1909	1908
15°	1895	1888	1884
20°	1869	1857	1846
25°	1834	1814	1799
30°	1793	1765	1749
35°	1742	1709	1690
40°	1687	1648	1627
45°	1629	1583	1560
50°	1563	1514	1487
55°	1494	1441	1415
60°	1417	1361	1335
65°	1334	1271	1245
70°	1241	1174	1145
75°	1126	1063	1045
80°	976	923	928
85°	804	794	743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1629 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	3.7
10°-20°	382.1	10.6
20°-30°	563.0	15.6
30°-40°	651.8	18.1
40°-50°	643.5	17.9
50°-60°	551.2	15.3
60°-70°	398.5	11.1
70°-80°	219.7	6.1
80°-90°	59.2	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°	1080.1	30.0
0°-40°	1731.9	48.1
0°-60°	2926.7	81.2
0°-90°	3604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3604.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1429	1429	1429	1429	1429	
5°	1424	1423	1423	1421	1421	135
15°	1360	1359	1356	1354	1352	383
25°	1235	1232	1222	1216	1212	569
35°	1060	1054	1040	1031	1029	663
45°	856	845	832	824	820	660
55°	637	625	614	606	603	569
65°	419	409	399	393	391	415
75°	217	210	204	204	201	230
85°	52	52	51	48	48	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1429.3	1429.3	1429.3	1429.3	1429.3
2.5°	1429.3	1429.3	1428.0	1428.0	1428.0
5°	1423.9	1423.3	1422.6	1421.2	1421.2
7.5°	1413.8	1413.8	1411.8	1411.8	1410.4
10°	1400.9	1399.6	1397.5	1397.5	1396.2
12.5°	1382.7	1381.3	1378.6	1377.9	1375.9
15°	1360.3	1359.0	1355.6	1353.5	1352.2
17.5°	1334.6	1332.6	1328.5	1325.1	1322.4
20°	1305.5	1302.8	1296.7	1292.6	1289.3
22.5°	1272.3	1269.6	1260.8	1256.1	1252.7
25°	1235.1	1231.7	1221.6	1215.5	1212.1
27.5°	1195.2	1191.1	1179.6	1172.9	1169.5
30°	1153.9	1147.8	1136.3	1128.2	1125.5
32.5°	1107.9	1101.8	1090.3	1080.8	1078.1
35°	1060.5	1053.7	1040.2	1031.4	1028.7
37.5°	1011.8	1003.0	990.8	982.0	977.9
40°	960.3	951.5	938.0	928.5	926.5
42.5°	908.9	898.1	886.6	877.1	873.0
45°	856.1	844.6	831.8	823.6	819.6
47.5°	800.6	789.8	778.3	768.8	765.4
50°	746.5	735.0	723.5	714.7	710.6
52.5°	691.0	679.5	668.7	661.2	657.1
55°	636.8	624.7	614.5	605.7	603.0
57.5°	582.0	571.2	559.7	551.6	549.5
60°	526.5	517.1	505.6	498.1	496.1
62.5°	473.1	463.6	452.8	445.3	441.9
65°	418.9	409.4	399.3	393.2	391.2
67.5°	366.1	357.3	348.5	342.4	341.1
70°	315.4	306.6	298.5	293.0	291.0
72.5°	264.6	258.5	250.4	247.0	245.0
75°	216.6	209.8	204.4	203.7	201.0
77.5°	169.9	169.2	160.4	159.0	159.0
80°	125.9	123.8	119.1	117.8	119.8
82.5°	86.6	85.3	82.6	81.9	81.2
85°	52.1	52.1	51.4	48.1	48.1
87.5°	23.7	23.0	22.3	23.0	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)