

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: P601159

Luminaire Tested: 24D3X-LP-40-L835

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601159
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-40-L835
Description: 2x4 D3X-LP AT 4000LM 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

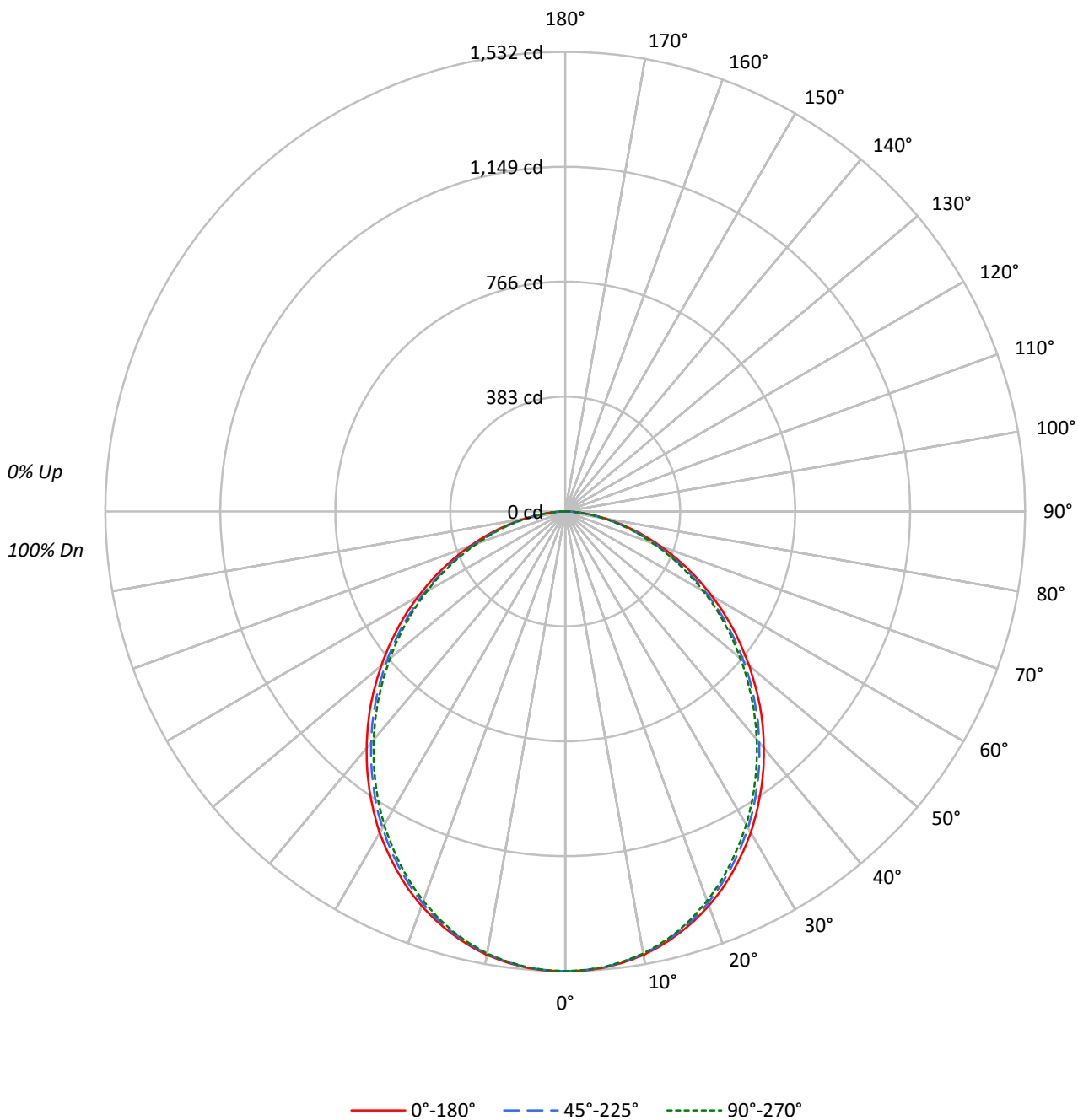
Lumens per Lamp: N/A
Luminaire Lumens: 3862.0 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.4
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
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2061	2061	2061
5°	2061	2059	2057
10°	2051	2046	2044
15°	2031	2023	2018
20°	2003	1990	1978
25°	1965	1943	1928
30°	1921	1892	1874
35°	1867	1831	1811
40°	1808	1766	1744
45°	1746	1696	1671
50°	1674	1623	1594
55°	1601	1545	1516
60°	1518	1458	1431
65°	1429	1362	1335
70°	1330	1258	1227
75°	1207	1138	1120
80°	1045	989	995
85°	861	851	795

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1746 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	3.7
10°-20°	409.4	10.6
20°-30°	603.4	15.6
30°-40°	698.5	18.1
40°-50°	689.6	17.9
50°-60°	590.7	15.3
60°-70°	427.0	11.1
70°-80°	235.4	6.1
80°-90°	63.4	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°	1157.4	30.0
0°-40°	1855.9	48.1
0°-60°	3136.2	81.2
0°-90°	3862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1526	1525	1524	1523	1523	145
15°	1458	1456	1453	1450	1449	411
25°	1324	1320	1309	1302	1299	609
35°	1136	1129	1115	1105	1102	711
45°	917	905	891	883	878	707
55°	682	669	658	649	646	610
65°	449	439	428	421	419	445
75°	232	225	219	218	215	246
85°	56	56	55	52	52	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1531.7	1531.7	1531.7	1531.7	1531.7
2.5°	1531.7	1531.7	1530.2	1530.2	1530.2
5°	1525.9	1525.1	1524.4	1523.0	1523.0
7.5°	1515.0	1515.0	1512.8	1512.8	1511.4
10°	1501.2	1499.8	1497.6	1497.6	1496.1
12.5°	1481.6	1480.2	1477.3	1476.6	1474.4
15°	1457.7	1456.2	1452.6	1450.4	1449.0
17.5°	1430.1	1428.0	1423.6	1420.0	1417.1
20°	1399.0	1396.1	1389.5	1385.2	1381.5
22.5°	1363.4	1360.5	1351.1	1346.0	1342.4
25°	1323.5	1319.9	1309.0	1302.5	1298.9
27.5°	1280.7	1276.4	1264.1	1256.8	1253.2
30°	1236.5	1230.0	1217.6	1208.9	1206.0
32.5°	1187.2	1180.7	1168.3	1158.2	1155.3
35°	1136.4	1129.2	1114.7	1105.2	1102.3
37.5°	1084.2	1074.8	1061.7	1052.3	1047.9
40°	1029.1	1019.7	1005.2	995.0	992.8
42.5°	974.0	962.4	950.0	939.9	935.5
45°	917.4	905.1	891.3	882.6	878.2
47.5°	857.9	846.3	834.0	823.9	820.2
50°	799.9	787.6	775.3	765.8	761.5
52.5°	740.5	728.1	716.5	708.5	704.2
55°	682.4	669.4	658.5	649.1	646.2
57.5°	623.7	612.1	599.8	591.1	588.9
60°	564.2	554.1	541.7	533.8	531.6
62.5°	506.9	496.8	485.2	477.2	473.6
65°	448.9	438.8	427.9	421.4	419.2
67.5°	392.3	382.9	373.5	367.0	365.5
70°	338.0	328.5	319.8	314.0	311.8
72.5°	283.6	277.0	268.3	264.7	262.5
75°	232.1	224.8	219.0	218.3	215.4
77.5°	182.0	181.3	171.9	170.4	170.4
80°	134.9	132.7	127.6	126.2	128.4
82.5°	92.8	91.4	88.5	87.8	87.0
85°	55.8	55.8	55.1	51.5	51.5
87.5°	25.4	24.7	23.9	24.7	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)