

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: P601166

Luminaire Tested: 24D3X-LP-45-L840

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601166
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-L840
Description: 2x4 D3X-LP AT 4500LM 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

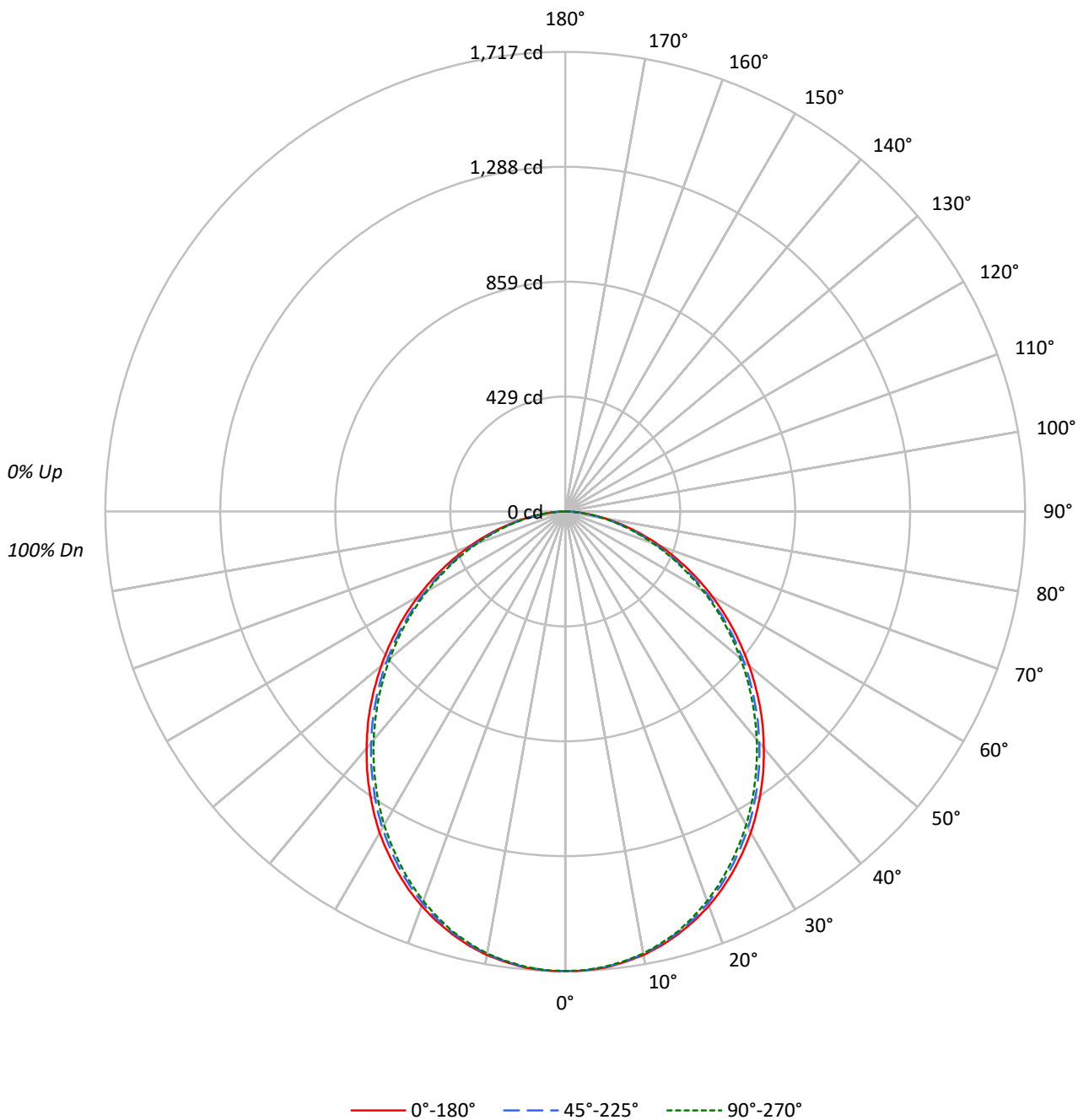
Lumens per Lamp: N/A
Luminaire Lumens: 4329.0 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2310	2310	2310
5°	2310	2308	2306
10°	2299	2294	2291
15°	2276	2268	2262
20°	2245	2230	2217
25°	2203	2178	2161
30°	2153	2121	2100
35°	2092	2052	2030
40°	2026	1979	1955
45°	1957	1901	1873
50°	1877	1819	1787
55°	1795	1731	1699
60°	1702	1634	1604
65°	1602	1527	1496
70°	1490	1410	1375
75°	1352	1276	1255
80°	1172	1109	1115
85°	966	954	891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1957 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	3.7
10°-20°	458.9	10.6
20°-30°	676.3	15.6
30°-40°	782.9	18.1
40°-50°	773.0	17.9
50°-60°	662.1	15.3
60°-70°	478.7	11.1
70°-80°	263.9	6.1
80°-90°	71.1	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°	1297.4	30.0
0°-40°	2080.3	48.1
0°-60°	3515.4	81.2
0°-90°	4329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4329.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1717	1717	1717	1717	1717	
5°	1710	1710	1709	1707	1707	162
15°	1634	1632	1628	1626	1624	461
25°	1484	1480	1467	1460	1456	683
35°	1274	1266	1250	1239	1236	796
45°	1028	1014	999	989	984	792
55°	765	750	738	728	724	684
65°	503	492	480	472	470	499
75°	260	252	246	245	241	276
85°	63	63	62	58	58	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1716.9	1716.9	1716.9	1716.9	1716.9
2.5°	1716.9	1716.9	1715.3	1715.3	1715.3
5°	1710.4	1709.6	1708.8	1707.1	1707.1
7.5°	1698.2	1698.2	1695.7	1695.7	1694.1
10°	1682.7	1681.1	1678.7	1678.7	1677.1
12.5°	1660.8	1659.2	1655.9	1655.1	1652.7
15°	1634.0	1632.3	1628.3	1625.8	1624.2
17.5°	1603.1	1600.6	1595.8	1591.7	1588.4
20°	1568.1	1564.9	1557.6	1552.7	1548.6
22.5°	1528.3	1525.0	1514.5	1508.8	1504.7
25°	1483.6	1479.5	1467.3	1460.0	1455.9
27.5°	1435.6	1430.7	1416.9	1408.8	1404.7
30°	1386.0	1378.7	1364.9	1355.1	1351.9
32.5°	1330.7	1323.4	1309.6	1298.2	1295.0
35°	1273.8	1265.7	1249.5	1238.9	1235.6
37.5°	1215.3	1204.7	1190.1	1179.5	1174.7
40°	1153.5	1143.0	1126.7	1115.3	1112.9
42.5°	1091.7	1078.7	1064.9	1053.5	1048.7
45°	1028.3	1014.5	999.1	989.3	984.4
47.5°	961.7	948.7	934.9	923.5	919.4
50°	896.6	882.8	869.0	858.4	853.6
52.5°	830.0	816.2	803.2	794.2	789.3
55°	765.0	750.3	738.1	727.6	724.3
57.5°	699.1	686.1	672.3	662.5	660.1
60°	632.5	621.1	607.2	598.3	595.9
62.5°	568.2	556.8	543.8	534.9	530.8
65°	503.2	491.8	479.6	472.3	469.9
67.5°	439.8	429.2	418.7	411.3	409.7
70°	378.8	368.3	358.5	352.0	349.6
72.5°	317.9	310.5	300.8	296.7	294.3
75°	260.1	252.0	245.5	244.7	241.4
77.5°	204.0	203.2	192.7	191.0	191.0
80°	151.2	148.8	143.1	141.4	143.9
82.5°	104.1	102.4	99.2	98.4	97.6
85°	62.6	62.6	61.8	57.7	57.7
87.5°	28.5	27.6	26.8	27.6	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)