

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: P#

Luminaire Tested: 24D3X-LP-40-L850.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 12/21/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-40-L850.ies
Description: 2x4 D3X-LP AT 4000LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

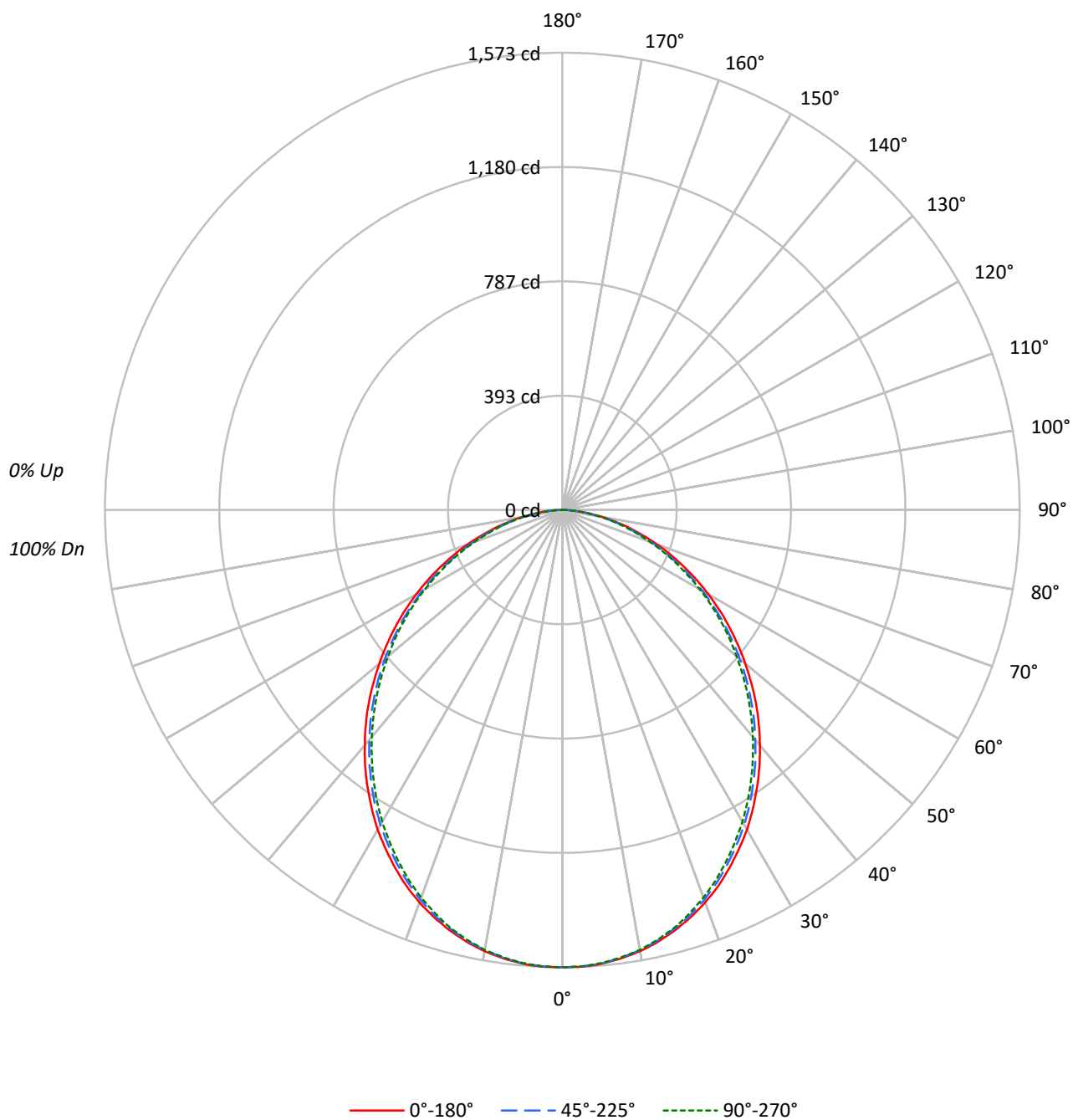
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3966.3 lumens
Efficiency: N/A
Efficacy: 134.9 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	100	97	106	102	99	95	98	95	92		94	92	89		91
2	100	92	85	79	97	90	84	78	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52
7	66	53	44	38	64	52	44	38	51	43	38		49	42	38		48
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		41
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2116	2116	2116
5°	2117	2115	2113
10°	2106	2101	2099
15°	2085	2078	2073
20°	2057	2043	2032
25°	2018	1996	1980
30°	1973	1943	1924
35°	1917	1880	1860
40°	1856	1813	1791
45°	1793	1742	1716
50°	1720	1667	1637
55°	1644	1586	1557
60°	1559	1497	1469
65°	1468	1399	1371
70°	1365	1292	1260
75°	1239	1169	1150
80°	1073	1016	1021
85°	885	874	817

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1793 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	3.7
10°-20°	420.5	10.6
20°-30°	619.6	15.6
30°-40°	717.3	18.1
40°-50°	708.2	17.9
50°-60°	606.6	15.3
60°-70°	438.6	11.1
70°-80°	241.8	6.1
80°-90°	65.1	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°	1188.7	30.0
0°-40°	1906.0	48.1
0°-60°	3220.9	81.2
0°-90°	3966.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3966.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1573	1573	1573	1573	1573	
5°	1567	1566	1566	1564	1564	149
15°	1497	1496	1492	1490	1488	422
25°	1359	1356	1344	1338	1334	626
35°	1167	1160	1145	1135	1132	730
45°	942	930	915	906	902	726
55°	701	688	676	667	664	626
65°	461	451	439	433	430	457
75°	238	231	225	224	221	253
85°	57	57	57	53	53	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1573.0	1573.0	1573.0	1573.0	1573.0
2.5°	1573.0	1573.0	1571.5	1571.5	1571.5
5°	1567.1	1566.3	1565.6	1564.1	1564.1
7.5°	1555.9	1555.9	1553.7	1553.7	1552.2
10°	1541.7	1540.3	1538.0	1538.0	1536.5
12.5°	1521.6	1520.1	1517.2	1516.4	1514.2
15°	1497.1	1495.6	1491.8	1489.6	1488.1
17.5°	1468.8	1466.5	1462.1	1458.3	1455.3
20°	1436.7	1433.7	1427.0	1422.6	1418.9
22.5°	1400.2	1397.3	1387.6	1382.4	1378.6
25°	1359.3	1355.5	1344.4	1337.7	1333.9
27.5°	1315.3	1310.9	1298.2	1290.7	1287.0
30°	1269.9	1263.2	1250.5	1241.6	1238.6
32.5°	1219.2	1212.5	1199.9	1189.5	1186.5
35°	1167.1	1159.7	1144.8	1135.1	1132.1
37.5°	1113.5	1103.8	1090.4	1080.7	1076.2
40°	1056.9	1047.2	1032.3	1021.9	1019.6
42.5°	1000.3	988.4	975.7	965.3	960.8
45°	942.2	929.5	915.4	906.4	902.0
47.5°	881.1	869.2	856.5	846.1	842.4
50°	821.5	808.9	796.2	786.5	782.0
52.5°	760.4	747.8	735.9	727.7	723.2
55°	700.9	687.5	676.3	666.6	663.6
57.5°	640.5	628.6	616.0	607.0	604.8
60°	579.5	569.0	556.4	548.2	545.9
62.5°	520.6	510.2	498.3	490.1	486.4
65°	461.0	450.6	439.4	432.7	430.5
67.5°	402.9	393.3	383.6	376.9	375.4
70°	347.1	337.4	328.5	322.5	320.3
72.5°	291.2	284.5	275.6	271.9	269.6
75°	238.3	230.9	224.9	224.2	221.2
77.5°	186.9	186.2	176.5	175.0	175.0
80°	138.5	136.3	131.1	129.6	131.8
82.5°	95.3	93.8	90.9	90.1	89.4
85°	57.3	57.3	56.6	52.9	52.9
87.5°	26.1	25.3	24.6	25.3	27.6
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.7	15.3	14.0	15.6	15.9	13.4	15.0	13.8	15.3	15.6
	3H	15.4	16.8	15.7	17.1	17.5	15.0	16.5	15.4	16.8	17.2
	4H	16.0	17.3	16.4	17.7	18.1	15.6	17.0	16.0	17.3	17.7
	6H	16.4	17.7	16.8	18.0	18.4	16.1	17.3	16.5	17.7	18.1
	8H	16.5	17.7	17.0	18.1	18.5	16.2	17.4	16.6	17.8	18.2
	12H	16.6	17.8	17.1	18.2	18.6	16.3	17.4	16.7	17.8	18.2
4H	2H	14.2	15.6	14.6	15.9	16.3	14.0	15.4	14.4	15.7	16.1
	3H	16.1	17.3	16.5	17.6	18.0	15.8	17.0	16.3	17.4	17.8
	4H	16.9	17.9	17.3	18.3	18.7	16.6	17.6	17.0	18.0	18.4
	6H	17.4	18.3	17.9	18.8	19.2	17.1	18.0	17.6	18.5	18.9
	8H	17.6	18.4	18.1	18.9	19.4	17.3	18.1	17.8	18.6	19.0
	12H	17.7	18.5	18.2	19.0	19.4	17.4	18.2	17.9	18.6	19.1
8H	4H	17.1	18.0	17.6	18.4	18.9	16.9	17.7	17.3	18.1	18.6
	6H	17.8	18.5	18.3	19.0	19.5	17.5	18.2	18.0	18.7	19.2
	8H	18.0	18.7	18.5	19.2	19.7	17.8	18.4	18.3	18.9	19.4
	12H	18.2	18.8	18.7	19.3	19.8	17.9	18.5	18.4	19.0	19.5
12H	4H	17.1	17.9	17.6	18.4	18.8	16.9	17.6	17.4	18.1	18.6
	6H	17.8	18.5	18.4	18.9	19.5	17.6	18.2	18.1	18.7	19.2
	8H	18.1	18.7	18.6	19.2	19.7	17.9	18.4	18.4	18.9	19.5

(END OF REPORT)