

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: P601160

Luminaire Tested: 24D3X-LP-40-L840

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601160
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-L840
Description: 2x4 D3X-LP AT 4000LM 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

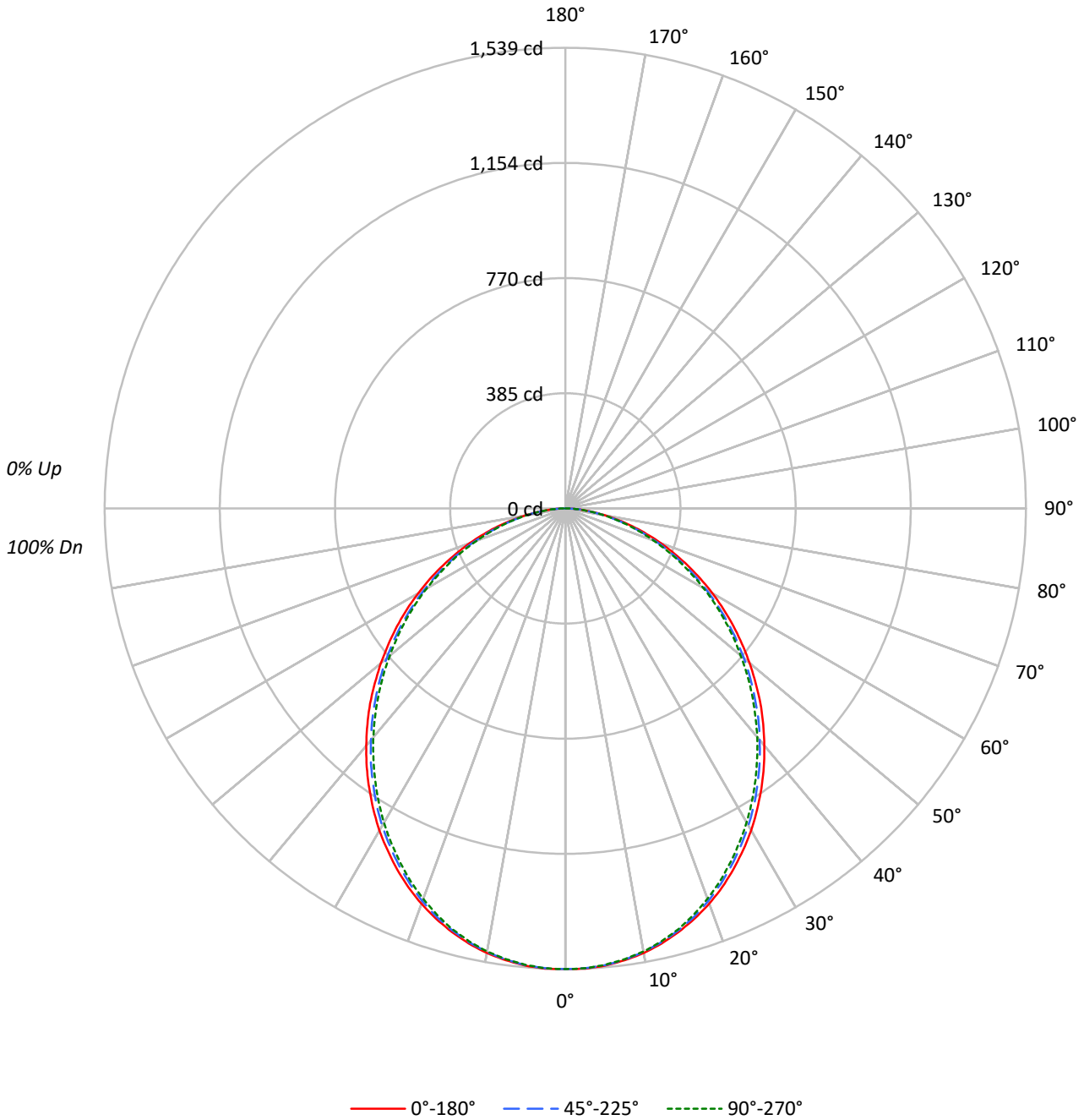
Lumens per Lamp: N/A
Luminaire Lumens: 3881.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	2071	2071	2071
5°	2071	2069	2067
10°	2061	2056	2054
15°	2041	2033	2028
20°	2013	1999	1988
25°	1974	1953	1938
30°	1931	1901	1883
35°	1876	1840	1820
40°	1816	1774	1752
45°	1754	1704	1679
50°	1683	1631	1602
55°	1609	1552	1523
60°	1526	1465	1438
65°	1436	1369	1341
70°	1336	1264	1233
75°	1212	1144	1125
80°	1051	994	1000
85°	866	855	798

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1754 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	3.7
10°-20°	411.4	10.6
20°-30°	606.3	15.6
30°-40°	701.9	18.1
40°-50°	693.0	17.9
50°-60°	593.6	15.3
60°-70°	429.1	11.1
70°-80°	236.6	6.1
80°-90°	63.7	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°	1163.1	30.0
0°-40°	1865.1	48.1
0°-60°	3151.6	81.2
0°-90°	3881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3881.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1533	1533	1532	1530	1530	146
15°	1465	1463	1460	1458	1456	413
25°	1330	1326	1316	1309	1305	612
35°	1142	1135	1120	1111	1108	714
45°	922	910	896	887	883	710
55°	686	673	662	652	649	613
65°	451	441	430	423	421	447
75°	233	226	220	219	216	247
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°	1539.2	1539.2	1539.2	1539.2	1539.2
2.5°	1539.2	1539.2	1537.7	1537.7	1537.7
5°	1533.4	1532.6	1531.9	1530.5	1530.5
7.5°	1522.4	1522.4	1520.3	1520.3	1518.8
10°	1508.6	1507.1	1505.0	1505.0	1503.5
12.5°	1488.9	1487.5	1484.5	1483.8	1481.6
15°	1464.9	1463.4	1459.8	1457.6	1456.1
17.5°	1437.2	1435.0	1430.6	1427.0	1424.1
20°	1405.8	1402.9	1396.4	1392.0	1388.3
22.5°	1370.1	1367.2	1357.7	1352.6	1349.0
25°	1330.0	1326.4	1315.5	1308.9	1305.3
27.5°	1287.0	1282.7	1270.3	1263.0	1259.4
30°	1242.6	1236.0	1223.6	1214.9	1212.0
32.5°	1193.0	1186.5	1174.1	1163.9	1161.0
35°	1142.0	1134.7	1120.2	1110.7	1107.8
37.5°	1089.5	1080.1	1066.9	1057.5	1053.1
40°	1034.2	1024.7	1010.1	999.9	997.7
42.5°	978.8	967.1	954.7	944.5	940.1
45°	921.9	909.5	895.7	886.9	882.6
47.5°	862.2	850.5	838.1	827.9	824.3
50°	803.9	791.5	779.1	769.6	765.2
52.5°	744.1	731.7	720.0	712.0	707.7
55°	685.8	672.7	661.7	652.3	649.4
57.5°	626.8	615.1	602.7	594.0	591.8
60°	567.0	556.8	544.4	536.4	534.2
62.5°	509.4	499.2	487.6	479.5	475.9
65°	451.1	440.9	430.0	423.4	421.2
67.5°	394.3	384.8	375.3	368.8	367.3
70°	339.6	330.1	321.4	315.6	313.4
72.5°	285.0	278.4	269.7	266.0	263.8
75°	233.2	225.9	220.1	219.4	216.5
77.5°	182.9	182.2	172.7	171.3	171.3
80°	135.6	133.4	128.3	126.8	129.0
82.5°	93.3	91.8	88.9	88.2	87.5
85°	56.1	56.1	55.4	51.7	51.7
87.5°	25.5	24.8	24.1	24.8	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)