

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: P601158

Luminaire Tested: 24D3X-LP-40-L830

Issue Date: 10/6/2023

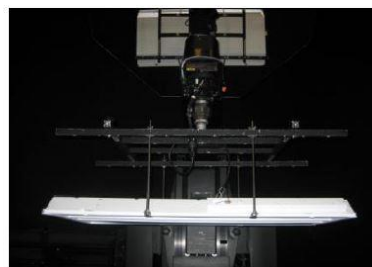
Test Information

Test Method: LM-79-2019
Report Number: P601158
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-L830
Description: 2x4 D3X-LP AT 4000LM 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

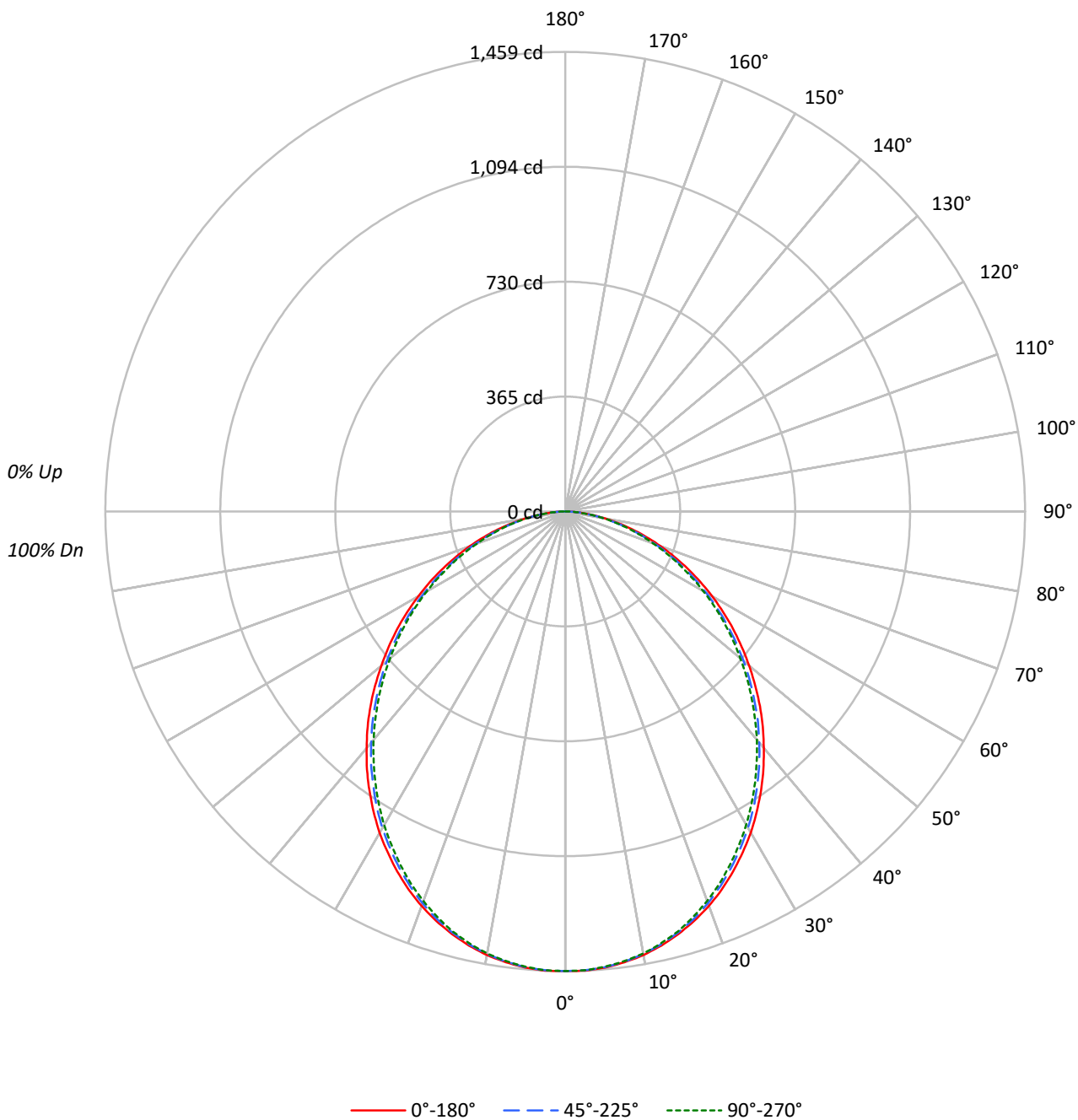
Lumens per Lamp: N/A
Luminaire Lumens: 3679.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1963	1963	1963
5°	1963	1961	1959
10°	1954	1949	1947
15°	1934	1928	1923
20°	1908	1895	1884
25°	1872	1851	1837
30°	1830	1802	1785
35°	1778	1744	1725
40°	1722	1682	1661
45°	1663	1616	1592
50°	1595	1546	1518
55°	1525	1472	1444
60°	1446	1389	1363
65°	1361	1298	1271
70°	1266	1199	1169
75°	1149	1084	1067
80°	996	942	948
85°	821	810	758

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1663 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	3.7
10°-20°	390.0	10.6
20°-30°	574.8	15.6
30°-40°	665.4	18.1
40°-50°	656.9	17.9
50°-60°	562.7	15.3
60°-70°	406.8	11.1
70°-80°	224.2	6.1
80°-90°	60.4	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°	1102.6	30.0
0°-40°	1768.0	48.1
0°-60°	2987.6	81.2
0°-90°	3679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1459	1459	1459	1459	1459	
5°	1454	1453	1452	1451	1451	138
15°	1389	1387	1384	1382	1380	391
25°	1261	1257	1247	1241	1237	581
35°	1083	1076	1062	1053	1050	677
45°	874	862	849	841	837	673
55°	650	638	627	618	616	581
65°	428	418	408	401	399	424
75°	221	214	209	208	205	235
85°	53	53	52	49	49	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1459.1	1459.1	1459.1	1459.1	1459.1
2.5°	1459.1	1459.1	1457.7	1457.7	1457.7
5°	1453.6	1452.9	1452.2	1450.8	1450.8
7.5°	1443.2	1443.2	1441.1	1441.1	1439.7
10°	1430.1	1428.7	1426.6	1426.6	1425.2
12.5°	1411.4	1410.0	1407.3	1406.6	1404.5
15°	1388.6	1387.2	1383.8	1381.7	1380.3
17.5°	1362.4	1360.3	1356.2	1352.7	1349.9
20°	1332.7	1329.9	1323.7	1319.5	1316.1
22.5°	1298.8	1296.1	1287.1	1282.2	1278.8
25°	1260.8	1257.4	1247.0	1240.8	1237.3
27.5°	1220.1	1215.9	1204.2	1197.3	1193.8
30°	1177.9	1171.7	1160.0	1151.7	1148.9
32.5°	1130.9	1124.7	1113.0	1103.3	1100.5
35°	1082.6	1075.7	1061.8	1052.9	1050.1
37.5°	1032.8	1023.9	1011.4	1002.4	998.3
40°	980.3	971.3	957.5	947.9	945.8
42.5°	927.8	916.8	905.0	895.4	891.2
45°	873.9	862.2	849.1	840.8	836.6
47.5°	817.3	806.2	794.5	784.8	781.4
50°	762.0	750.3	738.5	729.5	725.4
52.5°	705.4	693.6	682.6	675.0	670.8
55°	650.1	637.7	627.3	618.3	615.6
57.5°	594.1	583.1	571.3	563.0	561.0
60°	537.5	527.8	516.1	508.5	506.4
62.5°	482.9	473.2	462.2	454.6	451.1
65°	427.6	418.0	407.6	401.4	399.3
67.5°	373.8	364.8	355.8	349.6	348.2
70°	321.9	313.0	304.7	299.1	297.1
72.5°	270.1	263.9	255.6	252.2	250.1
75°	221.1	214.2	208.6	207.9	205.2
77.5°	173.4	172.7	163.7	162.4	162.4
80°	128.5	126.4	121.6	120.2	122.3
82.5°	88.4	87.0	84.3	83.6	82.9
85°	53.2	53.2	52.5	49.1	49.1
87.5°	24.2	23.5	22.8	23.5	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)