

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: P601163

Luminaire Tested: 24D3X-LP-40-L940

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601163
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-L940
Description: 2x4 D3X-LP AT 4000LM 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

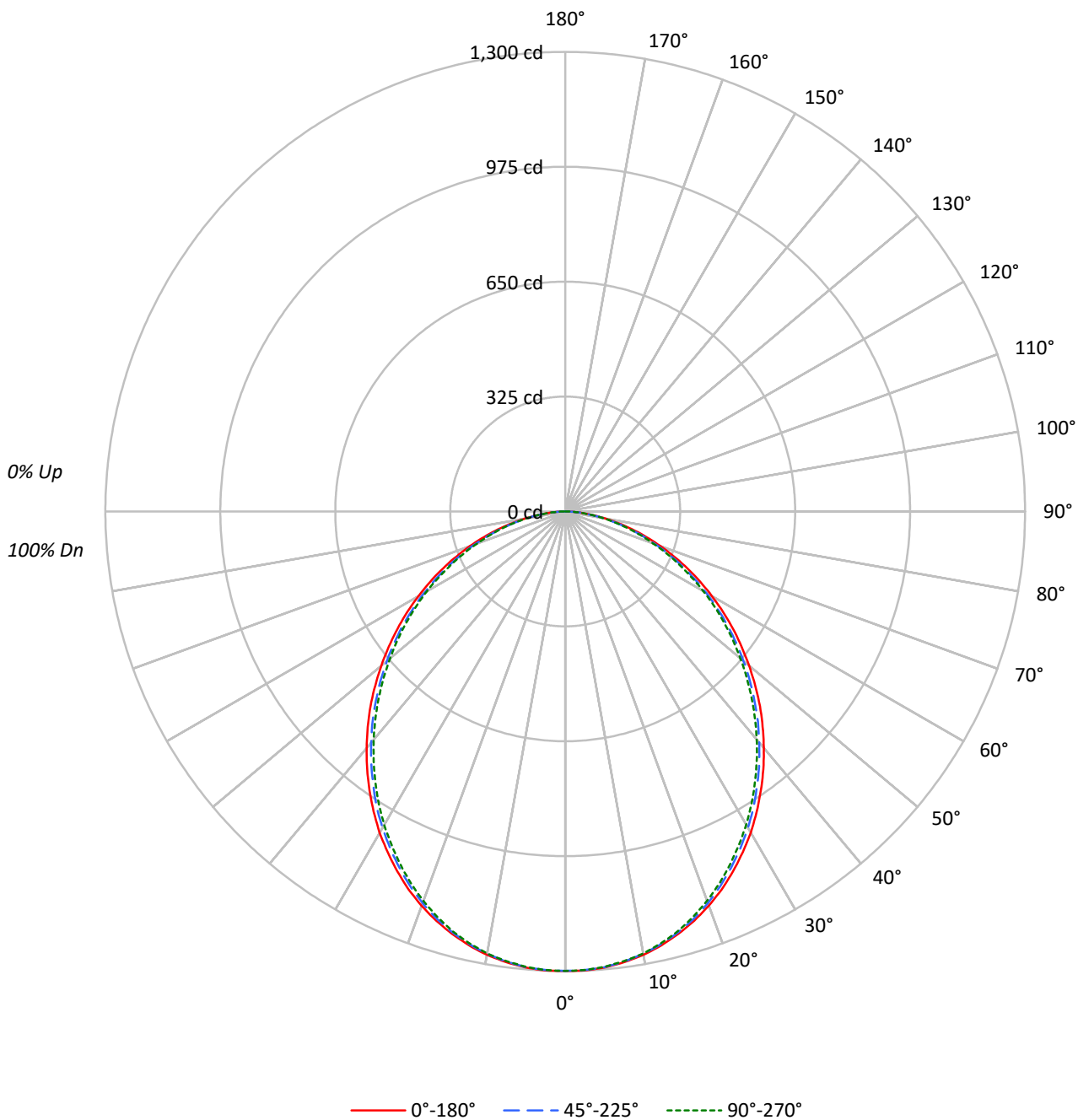
Lumens per Lamp: N/A
Luminaire Lumens: 3277.0 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1749	1749	1749
5°	1749	1747	1745
10°	1740	1736	1734
15°	1723	1717	1713
20°	1700	1688	1679
25°	1667	1649	1636
30°	1630	1605	1590
35°	1584	1554	1536
40°	1534	1498	1480
45°	1481	1439	1418
50°	1421	1377	1352
55°	1358	1311	1286
60°	1288	1237	1214
65°	1213	1156	1132
70°	1128	1068	1041
75°	1024	966	950
80°	887	839	844
85°	732	722	675

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1481 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	3.7
10°-20°	347.4	10.6
20°-30°	512.0	15.6
30°-40°	592.7	18.1
40°-50°	585.1	17.9
50°-60°	501.2	15.3
60°-70°	362.3	11.1
70°-80°	199.7	6.1
80°-90°	53.8	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°	982.1	30.0
0°-40°	1574.8	48.1
0°-60°	2661.1	81.2
0°-90°	3277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1295	1294	1294	1292	1292	123
15°	1237	1236	1233	1231	1230	349
25°	1123	1120	1111	1105	1102	517
35°	964	958	946	938	935	603
45°	778	768	756	749	745	600
55°	579	568	559	551	548	518
65°	381	372	363	358	356	378
75°	197	191	186	185	183	209
85°	47	47	47	44	44	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1299.7	1299.7	1299.7	1299.7	1299.7
2.5°	1299.7	1299.7	1298.4	1298.4	1298.4
5°	1294.7	1294.1	1293.5	1292.3	1292.3
7.5°	1285.5	1285.5	1283.7	1283.7	1282.4
10°	1273.8	1272.6	1270.7	1270.7	1269.5
12.5°	1257.2	1256.0	1253.5	1252.9	1251.0
15°	1236.9	1235.7	1232.6	1230.7	1229.5
17.5°	1213.5	1211.7	1208.0	1204.9	1202.4
20°	1187.0	1184.6	1179.0	1175.4	1172.3
22.5°	1156.9	1154.4	1146.4	1142.1	1139.0
25°	1123.0	1120.0	1110.7	1105.2	1102.1
27.5°	1086.7	1083.0	1072.6	1066.4	1063.4
30°	1049.2	1043.7	1033.2	1025.8	1023.4
32.5°	1007.4	1001.8	991.4	982.7	980.3
35°	964.3	958.1	945.8	937.8	935.4
37.5°	920.0	912.0	900.9	892.9	889.2
40°	873.2	865.2	852.9	844.3	842.4
42.5°	826.4	816.6	806.1	797.5	793.8
45°	778.4	768.0	756.3	748.9	745.2
47.5°	728.0	718.1	707.7	699.1	696.0
50°	678.8	668.3	657.8	649.8	646.1
52.5°	628.3	617.8	608.0	601.2	597.5
55°	579.1	568.0	558.8	550.8	548.3
57.5°	529.2	519.4	508.9	501.5	499.7
60°	478.8	470.1	459.7	452.9	451.1
62.5°	430.1	421.5	411.7	404.9	401.8
65°	380.9	372.3	363.1	357.5	355.7
67.5°	332.9	324.9	316.9	311.4	310.1
70°	286.8	278.8	271.4	266.5	264.6
72.5°	240.6	235.1	227.7	224.6	222.8
75°	196.9	190.8	185.8	185.2	182.8
77.5°	154.5	153.8	145.8	144.6	144.6
80°	114.5	112.6	108.3	107.1	108.9
82.5°	78.8	77.5	75.1	74.5	73.8
85°	47.4	47.4	46.8	43.7	43.7
87.5°	21.5	20.9	20.3	20.9	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)