

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: P601161

Luminaire Tested: 24D3X-LP-40-L930

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601161
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-L930
Description: 2x4 D3X-LP AT 4000LM 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

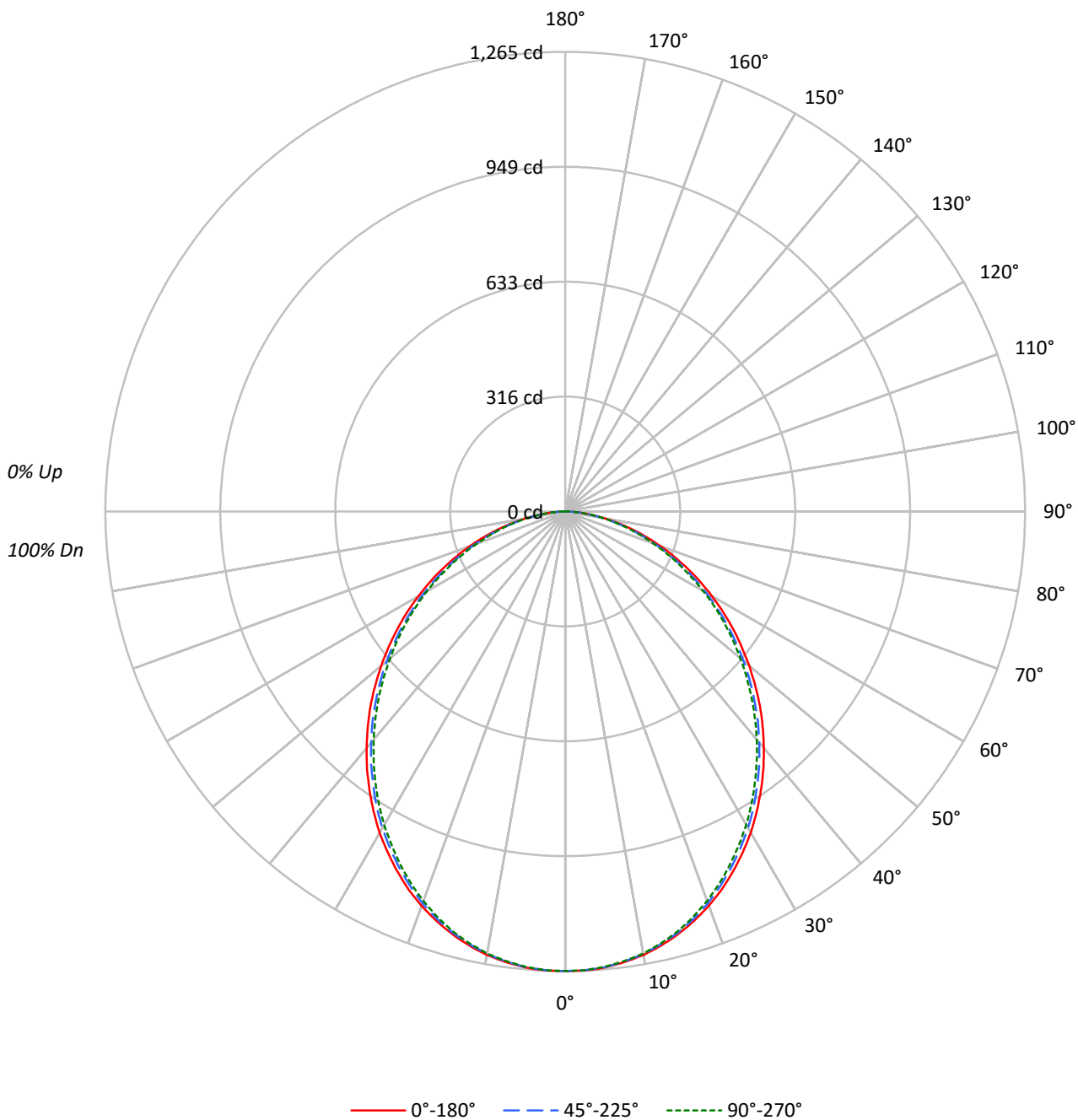
Lumens per Lamp: N/A
Luminaire Lumens: 3189.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1702	1702	1702
5°	1702	1700	1699
10°	1694	1689	1688
15°	1677	1671	1667
20°	1654	1643	1633
25°	1623	1605	1592
30°	1586	1562	1547
35°	1541	1512	1495
40°	1493	1458	1440
45°	1441	1400	1380
50°	1383	1340	1316
55°	1322	1276	1252
60°	1254	1204	1181
65°	1180	1125	1102
70°	1098	1039	1013
75°	996	940	925
80°	863	817	821
85°	712	702	656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1441 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	3.7
10°-20°	338.1	10.6
20°-30°	498.2	15.6
30°-40°	576.8	18.1
40°-50°	569.4	17.9
50°-60°	487.7	15.3
60°-70°	352.6	11.1
70°-80°	194.4	6.1
80°-90°	52.4	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°	955.7	30.0
0°-40°	1532.5	48.1
0°-60°	2589.7	81.2
0°-90°	3189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1265	1265	1265	1265	1265	
5°	1260	1259	1259	1258	1258	120
15°	1204	1202	1200	1198	1196	339
25°	1093	1090	1081	1076	1072	503
35°	938	932	920	913	910	587
45°	758	747	736	729	725	584
55°	564	553	544	536	534	504
65°	371	362	353	348	346	368
75°	192	186	181	180	178	203
85°	46	46	46	42	42	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1264.8	1264.8	1264.8	1264.8	1264.8
2.5°	1264.8	1264.8	1263.6	1263.6	1263.6
5°	1260.0	1259.4	1258.8	1257.6	1257.6
7.5°	1251.0	1251.0	1249.2	1249.2	1248.0
10°	1239.6	1238.4	1236.6	1236.6	1235.4
12.5°	1223.4	1222.2	1219.8	1219.2	1217.5
15°	1203.7	1202.5	1199.5	1197.7	1196.5
17.5°	1180.9	1179.1	1175.5	1172.5	1170.1
20°	1155.2	1152.8	1147.4	1143.8	1140.8
22.5°	1125.8	1123.4	1115.6	1111.5	1108.5
25°	1092.9	1089.9	1080.9	1075.5	1072.5
27.5°	1057.6	1054.0	1043.8	1037.8	1034.8
30°	1021.0	1015.6	1005.5	998.3	995.9
32.5°	980.3	974.9	964.7	956.4	954.0
35°	938.4	932.4	920.4	912.6	910.2
37.5°	895.3	887.5	876.7	868.9	865.3
40°	849.8	842.0	830.0	821.6	819.8
42.5°	804.2	794.7	784.5	776.1	772.5
45°	757.5	747.4	736.0	728.8	725.2
47.5°	708.4	698.9	688.7	680.3	677.3
50°	660.5	650.3	640.2	632.4	628.8
52.5°	611.4	601.2	591.7	585.1	581.5
55°	563.5	552.7	543.8	536.0	533.6
57.5°	515.0	505.4	495.2	488.1	486.3
60°	465.9	457.5	447.3	440.7	439.0
62.5°	418.6	410.2	400.6	394.0	391.0
65°	370.7	362.3	353.3	347.9	346.1
67.5°	324.0	316.2	308.4	303.0	301.8
70°	279.1	271.3	264.1	259.3	257.5
72.5°	234.1	228.8	221.6	218.6	216.8
75°	191.6	185.6	180.9	180.3	177.9
77.5°	150.3	149.7	141.9	140.7	140.7
80°	111.4	109.6	105.4	104.2	106.0
82.5°	76.7	75.5	73.1	72.5	71.9
85°	46.1	46.1	45.5	42.5	42.5
87.5°	21.0	20.4	19.8	20.4	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)