

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: P601155

Luminaire Tested: 24D3X-LP-35-L930

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601155
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-35-L930
Description: 2x4 D3X-LP AT 3500LM 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

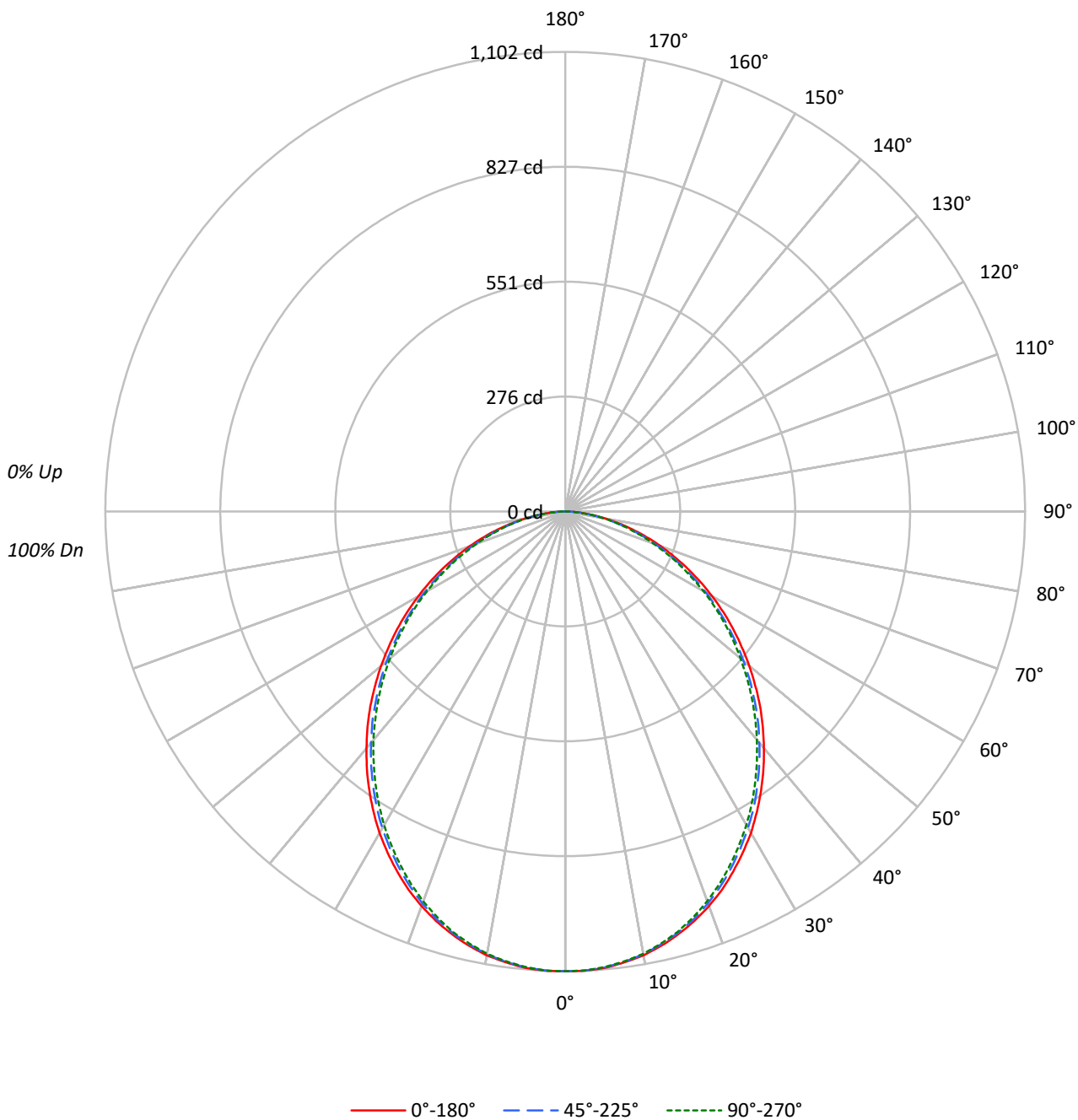
Lumens per Lamp: N/A
Luminaire Lumens: 2780.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.3
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	31	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°	1483	1483	1483
5°	1484	1482	1481
10°	1476	1473	1471
15°	1462	1456	1453
20°	1442	1432	1424
25°	1414	1399	1388
30°	1383	1362	1349
35°	1344	1318	1303
40°	1301	1271	1255
45°	1257	1221	1203
50°	1205	1168	1147
55°	1152	1112	1091
60°	1093	1049	1030
65°	1029	981	961
70°	957	906	883
75°	869	820	806
80°	752	712	716
85°	621	613	573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1257 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	3.7
10°-20°	294.7	10.6
20°-30°	434.3	15.6
30°-40°	502.8	18.1
40°-50°	496.4	17.9
50°-60°	425.2	15.3
60°-70°	307.4	11.1
70°-80°	169.4	6.1
80°-90°	45.6	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°	833.2	30.0
0°-40°	1336.0	48.1
0°-60°	2257.5	81.2
0°-90°	2780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1098	1098	1097	1096	1096	104
15°	1049	1048	1046	1044	1043	296
25°	953	950	942	938	935	439
35°	818	813	802	796	794	512
45°	660	652	642	635	632	509
55°	491	482	474	467	465	439
65°	323	316	308	303	302	320
75°	167	162	158	157	155	177
85°	40	40	40	37	37	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.5	1102.5	1102.5	1102.5	1102.5
2.5°	1102.5	1102.5	1101.5	1101.5	1101.5
5°	1098.4	1097.9	1097.3	1096.3	1096.3
7.5°	1090.5	1090.5	1089.0	1089.0	1087.9
10°	1080.6	1079.6	1078.0	1078.0	1077.0
12.5°	1066.5	1065.5	1063.4	1062.9	1061.3
15°	1049.3	1048.3	1045.6	1044.1	1043.0
17.5°	1029.5	1027.9	1024.8	1022.2	1020.1
20°	1007.0	1004.9	1000.2	997.1	994.5
22.5°	981.4	979.3	972.6	968.9	966.3
25°	952.7	950.1	942.3	937.6	935.0
27.5°	921.9	918.8	909.9	904.7	902.1
30°	890.1	885.4	876.5	870.2	868.2
32.5°	854.6	849.9	841.0	833.7	831.6
35°	818.0	812.8	802.4	795.6	793.5
37.5°	780.5	773.7	764.3	757.5	754.3
40°	740.8	734.0	723.5	716.2	714.7
42.5°	701.1	692.7	683.9	676.6	673.4
45°	660.4	651.5	641.6	635.3	632.2
47.5°	617.6	609.2	600.3	593.0	590.4
50°	575.8	566.9	558.1	551.3	548.1
52.5°	533.0	524.1	515.8	510.0	506.9
55°	491.2	481.8	474.0	467.2	465.1
57.5°	449.0	440.6	431.7	425.5	423.9
60°	406.1	398.8	390.0	384.2	382.7
62.5°	364.9	357.6	349.2	343.5	340.9
65°	323.1	315.8	308.0	303.3	301.7
67.5°	282.4	275.6	268.9	264.2	263.1
70°	243.3	236.5	230.2	226.0	224.5
72.5°	204.1	199.4	193.2	190.5	189.0
75°	167.1	161.8	157.7	157.1	155.0
77.5°	131.0	130.5	123.7	122.7	122.7
80°	97.1	95.5	91.9	90.8	92.4
82.5°	66.8	65.8	63.7	63.2	62.6
85°	40.2	40.2	39.7	37.1	37.1
87.5°	18.3	17.7	17.2	17.7	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)