

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: P601244

Luminaire Tested: 14D3X-LP-45-L935

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 14D3X-LP-45-L935
Description: 1x4 D3X-LP AT 4500lm 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

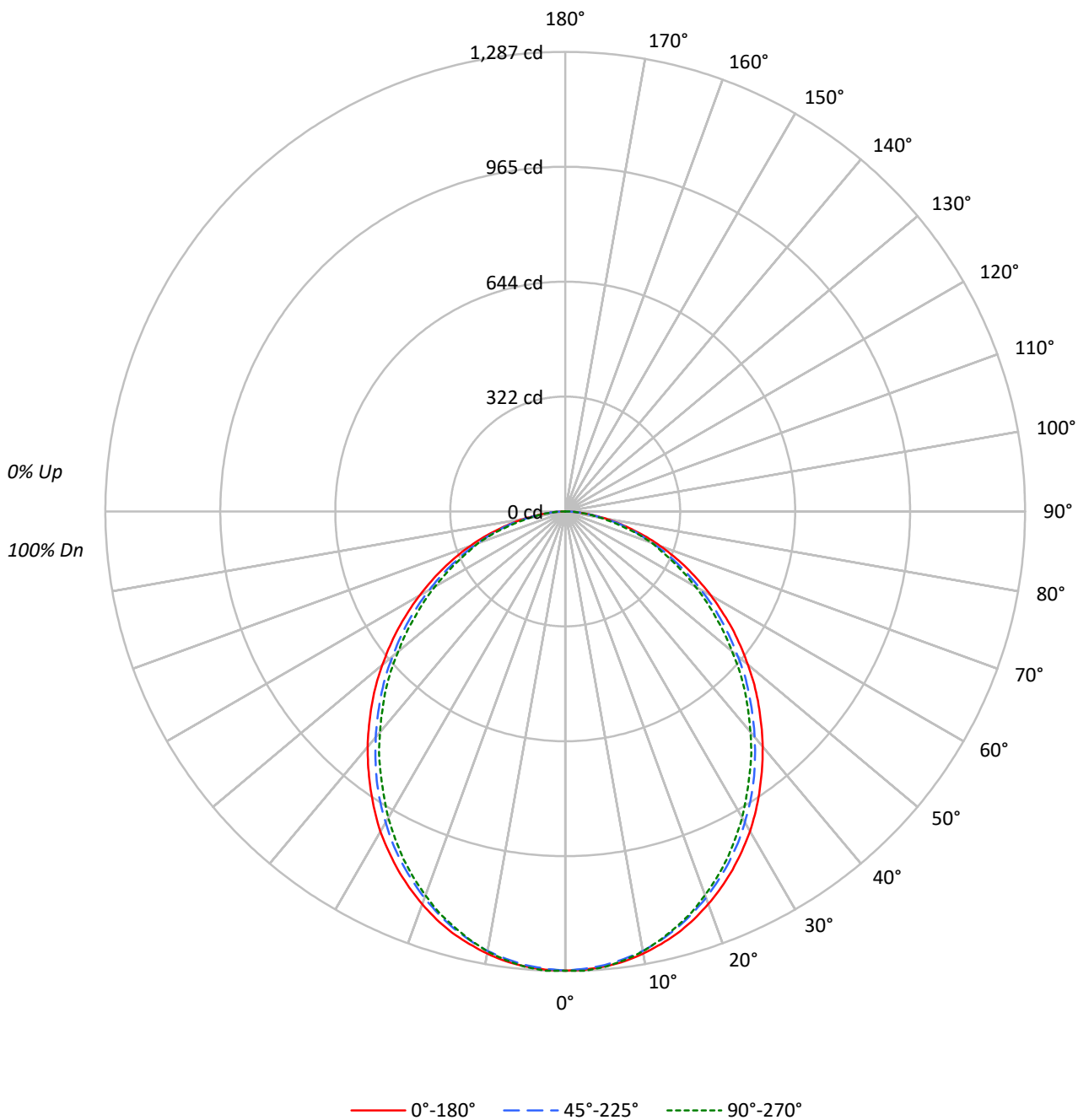
Lumens per Lamp: N/A
Luminaire Lumens: 3181.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.9
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	79	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	67	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	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°	3460	3460	3460
5°	3455	3444	3457
10°	3436	3415	3420
15°	3403	3365	3354
20°	3351	3299	3275
25°	3289	3219	3184
30°	3215	3124	3078
35°	3119	3020	2954
40°	3021	2897	2833
45°	2913	2773	2706
50°	2795	2637	2553
55°	2673	2512	2406
60°	2535	2359	2265
65°	2392	2211	2115
70°	2225	2060	2034
75°	2000	1905	1765
80°	1764	1646	1517
85°	1420	1420	1396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2913 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	3.8
10°-20°	341.1	10.7
20°-30°	500.2	15.7
30°-40°	576.1	18.1
40°-50°	565.3	17.8
50°-60°	481.0	15.1
60°-70°	347.8	10.9
70°-80°	194.3	6.1
80°-90°	54.1	1.7
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°	962.4	30.3
0°-40°	1538.5	48.4
0°-60°	2584.8	81.3
0°-90°	3181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3181.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1286	1286	1286	1286	1286	
5°	1279	1279	1275	1279	1280	121
15°	1221	1217	1208	1206	1204	344
25°	1108	1098	1084	1076	1072	510
35°	950	937	919	905	899	594
45°	765	750	729	714	711	590
55°	570	555	535	520	513	509
65°	376	366	347	334	332	372
75°	192	190	183	172	170	206
85°	46	48	46	45	45	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1285.8	1285.8	1285.8	1285.8	1285.8
2.5°	1284.1	1284.1	1281.6	1286.6	1287.4
5°	1279.1	1279.1	1274.9	1279.1	1279.9
7.5°	1270.7	1269.0	1264.0	1267.4	1267.4
10°	1257.3	1255.7	1249.8	1250.6	1251.5
12.5°	1240.6	1238.1	1230.6	1229.7	1228.9
15°	1221.4	1217.2	1208.0	1206.3	1203.8
17.5°	1197.9	1192.1	1181.2	1178.7	1177.0
20°	1170.3	1162.8	1151.9	1146.1	1143.6
22.5°	1140.2	1131.9	1118.5	1112.6	1109.3
25°	1107.6	1098.4	1084.2	1075.8	1072.5
27.5°	1071.6	1061.6	1046.5	1035.6	1031.5
30°	1034.8	1022.3	1005.5	994.7	990.5
32.5°	993.0	979.6	963.7	950.3	944.5
35°	949.5	936.9	919.4	905.1	899.3
37.5°	905.1	893.4	872.5	860.0	855.8
40°	860.0	846.6	824.8	809.8	806.4
42.5°	812.3	800.6	776.3	763.8	757.9
45°	765.4	750.4	728.6	714.4	711.1
47.5°	717.8	701.0	681.8	665.9	661.7
50°	667.6	652.5	629.9	615.7	609.8
52.5°	618.2	604.8	582.2	566.3	562.2
55°	569.7	554.6	535.4	520.3	512.8
57.5°	518.7	506.9	486.9	472.7	466.8
60°	471.0	457.6	438.4	426.6	420.8
62.5°	422.5	409.1	393.2	380.6	375.6
65°	375.6	365.6	347.2	333.8	332.1
67.5°	328.8	320.4	304.5	291.1	292.0
70°	282.8	275.2	261.8	253.5	258.5
72.5°	239.3	235.1	220.0	214.2	216.7
75°	192.4	189.9	183.2	172.3	169.8
77.5°	153.1	154.8	147.2	133.8	130.5
80°	113.8	118.0	106.2	102.1	97.9
82.5°	78.6	84.5	74.5	71.1	69.4
85°	46.0	48.5	46.0	45.2	45.2
87.5°	19.2	22.6	22.6	23.4	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)