

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: P601239

Luminaire Tested: 14D3X-LP-40-L940

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601239
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-40-L940
Description: 1x4 D3X-LP AT 4000lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

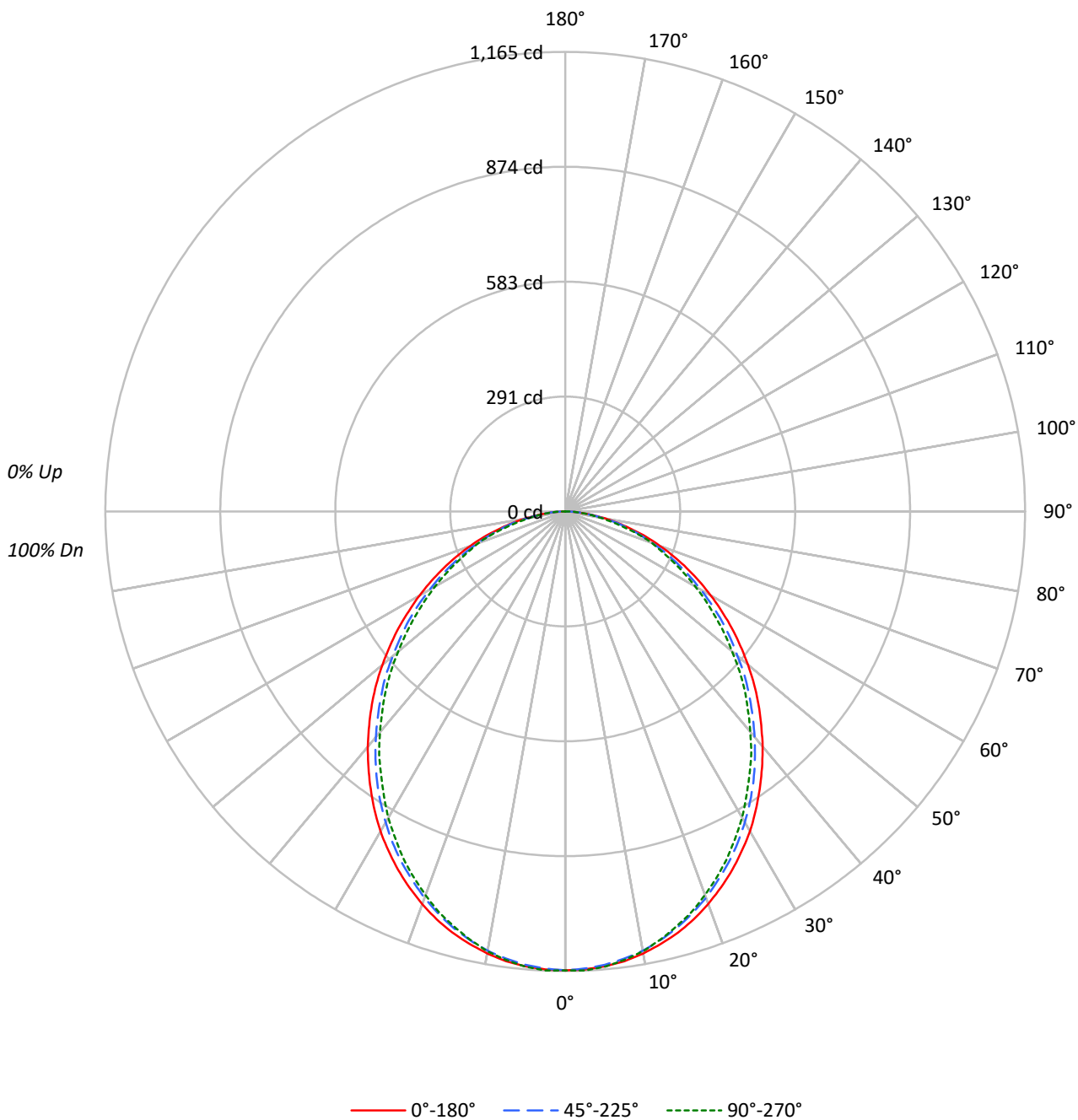
Lumens per Lamp: N/A
Luminaire Lumens: 2878.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
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°	3130	3130	3130
5°	3126	3116	3128
10°	3108	3090	3094
15°	3078	3045	3034
20°	3032	2985	2963
25°	2975	2912	2881
30°	2909	2827	2784
35°	2822	2733	2673
40°	2733	2622	2563
45°	2635	2509	2448
50°	2529	2386	2310
55°	2418	2273	2177
60°	2293	2134	2049
65°	2164	2000	1913
70°	2013	1864	1840
75°	1810	1724	1597
80°	1595	1489	1373
85°	1284	1284	1263

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2635 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	3.8
10°-20°	308.6	10.7
20°-30°	452.5	15.7
30°-40°	521.2	18.1
40°-50°	511.5	17.8
50°-60°	435.2	15.1
60°-70°	314.6	10.9
70°-80°	175.8	6.1
80°-90°	49.0	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°	870.7	30.3
0°-40°	1392.0	48.4
0°-60°	2338.6	81.3
0°-90°	2878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1157	1157	1154	1157	1158	110
15°	1105	1101	1093	1091	1089	311
25°	1002	994	981	973	970	461
35°	859	848	832	819	814	537
45°	692	679	659	646	643	534
55°	515	502	484	471	464	460
65°	340	331	314	302	300	337
75°	174	172	166	156	154	187
85°	42	44	42	41	41	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1163.3	1163.3	1163.3	1163.3	<i>1163.3</i>
2.5°	<i>1161.8</i>	<i>1161.8</i>	<i>1159.5</i>	<i>1164.1</i>	<i>1164.8</i>
5°	1157.2	1157.2	1153.5	1157.2	<i>1158.0</i>
7.5°	1149.7	1148.2	1143.6	1146.7	<i>1146.7</i>
10°	1137.6	1136.1	1130.8	1131.5	<i>1132.3</i>
12.5°	1122.4	1120.2	1113.3	1112.6	<i>1111.8</i>
15°	1105.0	1101.2	1092.9	1091.4	<i>1089.1</i>
17.5°	1083.8	1078.5	1068.7	1066.4	<i>1064.9</i>
20°	1058.9	1052.0	1042.2	1036.9	<i>1034.6</i>
22.5°	1031.6	1024.0	1011.9	1006.6	<i>1003.6</i>
25°	1002.1	993.8	980.9	973.3	<i>970.3</i>
27.5°	969.5	960.5	946.8	937.0	<i>933.2</i>
30°	936.2	924.9	909.8	899.9	<i>896.1</i>
32.5°	898.4	886.3	871.9	859.8	<i>854.5</i>
35°	859.0	847.7	831.8	818.9	<i>813.6</i>
37.5°	818.9	808.3	789.4	778.1	<i>774.3</i>
40°	778.1	765.9	746.3	732.6	<i>729.6</i>
42.5°	734.9	724.3	702.4	691.0	<i>685.7</i>
45°	692.5	678.9	659.2	646.4	<i>643.3</i>
47.5°	649.4	634.3	616.8	602.5	<i>598.7</i>
50°	604.0	590.4	569.9	557.1	<i>551.8</i>
52.5°	559.3	547.2	526.8	512.4	<i>508.6</i>
55°	515.4	501.8	484.4	470.8	<i>464.0</i>
57.5°	469.3	458.7	440.5	427.6	<i>422.3</i>
60°	426.1	414.0	396.6	386.0	<i>380.7</i>
62.5°	382.2	370.1	355.7	344.4	<i>339.8</i>
65°	339.8	330.8	314.1	302.0	<i>300.5</i>
67.5°	297.4	289.9	275.5	263.4	<i>264.1</i>
70°	255.8	249.0	236.9	229.3	<i>233.9</i>
72.5°	216.5	212.7	199.1	193.8	<i>196.0</i>
75°	174.1	171.8	165.8	155.9	<i>153.6</i>
77.5°	138.5	140.0	133.2	121.1	<i>118.1</i>
80°	102.9	106.7	96.1	92.3	<i>88.6</i>
82.5°	71.1	76.4	67.4	64.3	<i>62.8</i>
85°	41.6	43.9	41.6	40.9	<i>40.9</i>
87.5°	17.4	20.4	20.4	21.2	<i>21.9</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)