

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: P601211

Luminaire Tested: 14D3X-LP-20-L835

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601211
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-20-L835
Description: 1x4 D3X-LP AT 2000lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

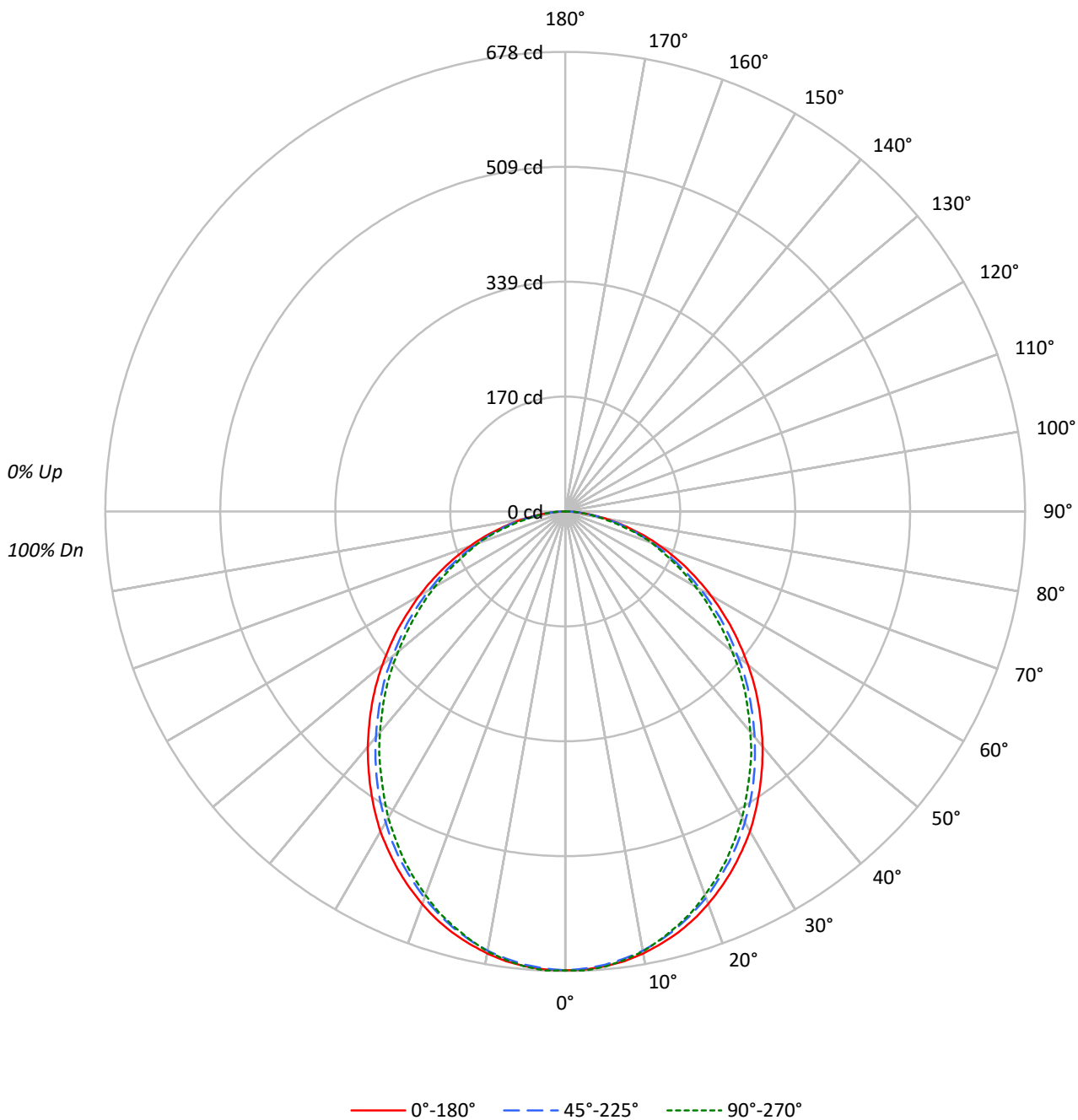
Lumens per Lamp: N/A
Luminaire Lumens: 1675.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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	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°	1822	1822	1822
5°	1819	1813	1821
10°	1809	1798	1801
15°	1792	1772	1766
20°	1765	1737	1725
25°	1732	1695	1677
30°	1693	1645	1620
35°	1643	1590	1555
40°	1591	1526	1492
45°	1534	1460	1425
50°	1472	1389	1344
55°	1407	1323	1267
60°	1335	1242	1193
65°	1259	1164	1114
70°	1172	1085	1071
75°	1053	1003	930
80°	928	866	798
85°	747	747	735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1534 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	3.8
10°-20°	179.6	10.7
20°-30°	263.4	15.7
30°-40°	303.4	18.1
40°-50°	297.7	17.8
50°-60°	253.3	15.1
60°-70°	183.1	10.9
70°-80°	102.3	6.1
80°-90°	28.5	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°	506.8	30.3
0°-40°	810.1	48.4
0°-60°	1361.1	81.3
0°-90°	1675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	677	677	677	677	677	
5°	674	674	671	674	674	64
15°	643	641	636	635	634	181
25°	583	578	571	566	565	268
35°	500	493	484	477	474	313
45°	403	395	384	376	374	311
55°	300	292	282	274	270	268
65°	198	192	183	176	175	196
75°	101	100	96	91	89	109
85°	24	26	24	24	24	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	677.0	677.0	677.0	677.0	677.0
2.5°	676.2	676.2	674.8	677.5	677.9
5°	673.5	673.5	671.3	673.5	674.0
7.5°	669.1	668.2	665.6	667.4	667.4
10°	662.1	661.2	658.1	658.5	659.0
12.5°	653.3	651.9	648.0	647.5	647.1
15°	643.1	640.9	636.1	635.2	633.9
17.5°	630.8	627.7	622.0	620.7	619.8
20°	616.3	612.3	606.6	603.5	602.2
22.5°	600.4	596.0	588.9	585.9	584.1
25°	583.2	578.4	570.9	566.5	564.7
27.5°	564.3	559.0	551.1	545.3	543.1
30°	544.9	538.3	529.5	523.8	521.5
32.5°	522.9	515.8	507.5	500.4	497.3
35°	500.0	493.4	484.1	476.6	473.5
37.5°	476.6	470.5	459.4	452.8	450.6
40°	452.8	445.8	434.3	426.4	424.6
42.5°	427.7	421.6	408.8	402.2	399.1
45°	403.1	395.1	383.7	376.2	374.4
47.5°	377.9	369.1	359.0	350.6	348.4
50°	351.5	343.6	331.7	324.2	321.1
52.5°	325.5	318.5	306.6	298.2	296.0
55°	300.0	292.0	281.9	274.0	270.0
57.5°	273.1	266.9	256.4	248.9	245.8
60°	248.0	241.0	230.8	224.7	221.6
62.5°	222.5	215.4	207.0	200.4	197.8
65°	197.8	192.5	182.8	175.8	174.9
67.5°	173.1	168.7	160.3	153.3	153.7
70°	148.9	144.9	137.9	133.5	136.1
72.5°	126.0	123.8	115.9	112.8	114.1
75°	101.3	100.0	96.5	90.7	89.4
77.5°	80.6	81.5	77.5	70.5	68.7
80°	59.9	62.1	55.9	53.7	51.5
82.5°	41.4	44.5	39.2	37.4	36.6
85°	24.2	25.5	24.2	23.8	23.8
87.5°	10.1	11.9	11.9	12.3	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)