

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: P601223

Luminaire Tested: 14D3X-LP-30-L835

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601223
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-30-L835
Description: 1x4 D3X-LP AT 3000lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

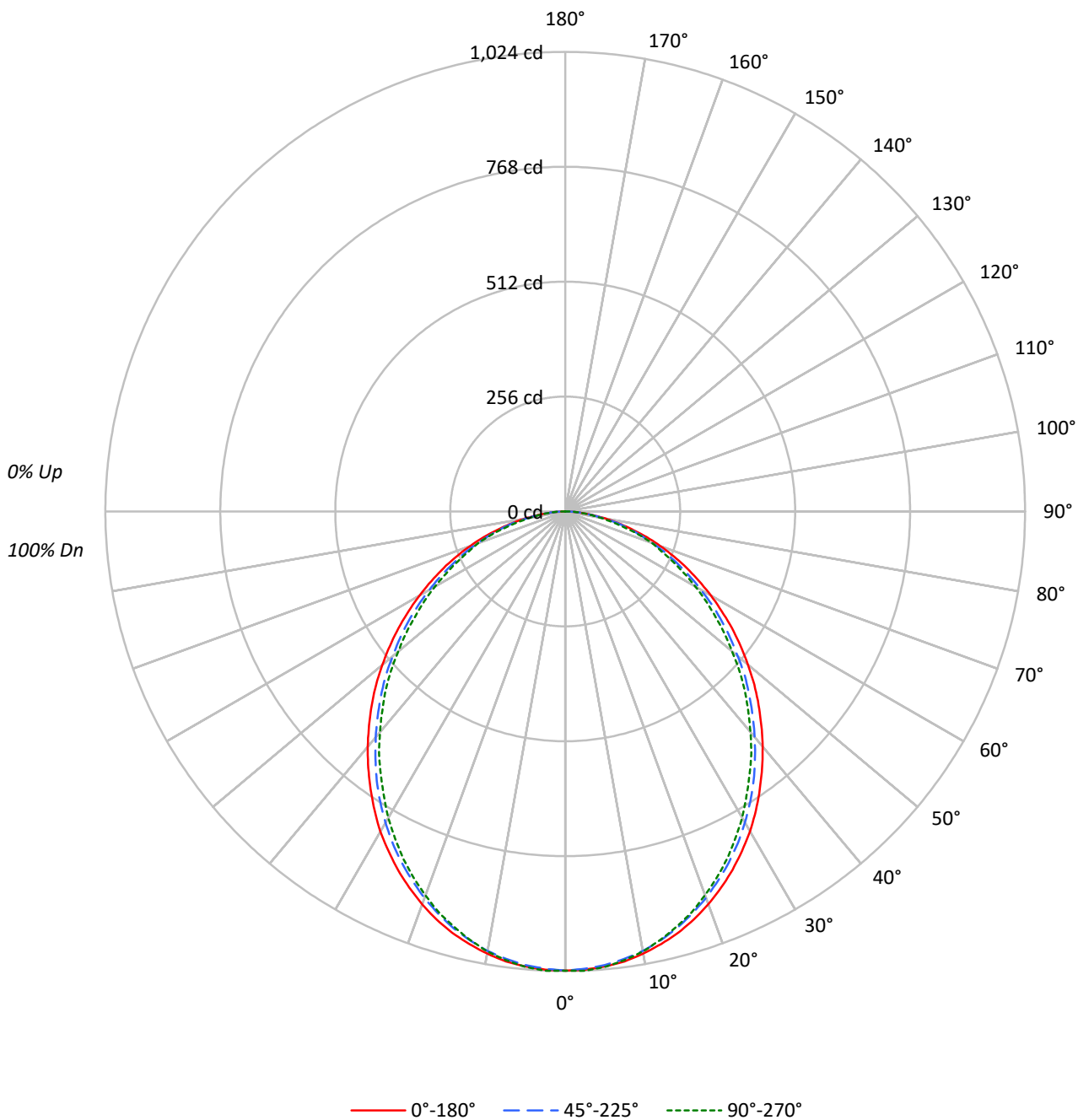
Lumens per Lamp: N/A
Luminaire Lumens: 2531.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27
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°	2753	2753	2753
5°	2749	2740	2751
10°	2734	2717	2721
15°	2707	2678	2668
20°	2667	2625	2606
25°	2617	2561	2534
30°	2559	2486	2449
35°	2482	2403	2350
40°	2403	2305	2254
45°	2318	2206	2153
50°	2224	2098	2031
55°	2127	1999	1914
60°	2017	1877	1802
65°	1903	1759	1682
70°	1770	1639	1618
75°	1592	1516	1405
80°	1402	1309	1207
85°	1130	1130	1108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2318 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	3.8
10°-20°	271.4	10.7
20°-30°	398.0	15.7
30°-40°	458.4	18.1
40°-50°	449.8	17.8
50°-60°	382.7	15.1
60°-70°	276.7	10.9
70°-80°	154.6	6.1
80°-90°	43.1	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°	765.8	30.3
0°-40°	1224.2	48.4
0°-60°	2056.6	81.3
0°-90°	2531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1023	1023	1023	1023	1023	
5°	1018	1018	1014	1018	1018	97
15°	972	968	961	960	958	274
25°	881	874	863	856	853	406
35°	756	746	732	720	716	473
45°	609	597	580	568	566	470
55°	453	441	426	414	408	405
65°	299	291	276	266	264	296
75°	153	151	146	137	135	164
85°	37	39	37	36	36	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.0	1023.0	1023.0	1023.0	1023.0
2.5°	1021.7	1021.7	1019.7	1023.7	1024.4
5°	1017.7	1017.7	1014.4	1017.7	1018.4
7.5°	1011.1	1009.7	1005.7	1008.4	1008.4
10°	1000.4	999.1	994.4	995.1	995.8
12.5°	987.1	985.1	979.1	978.4	977.8
15°	971.8	968.5	961.1	959.8	957.8
17.5°	953.2	948.5	939.8	937.8	936.5
20°	931.2	925.2	916.5	911.9	909.9
22.5°	907.2	900.6	889.9	885.3	882.6
25°	881.3	873.9	862.6	856.0	853.3
27.5°	852.6	844.7	832.7	824.0	820.7
30°	823.4	813.4	800.1	791.4	788.1
32.5°	790.1	779.4	766.8	756.1	751.5
35°	755.5	745.5	731.5	720.2	715.5
37.5°	720.2	710.9	694.2	684.2	680.9
40°	684.2	673.6	656.3	644.3	641.6
42.5°	646.3	637.0	617.7	607.7	603.0
45°	609.0	597.1	579.7	568.4	565.8
47.5°	571.1	557.8	542.5	529.8	526.5
50°	531.2	519.2	501.2	489.9	485.2
52.5°	491.9	481.2	463.3	450.6	447.3
55°	453.3	441.3	426.0	414.0	408.0
57.5°	412.7	403.4	387.4	376.1	371.4
60°	374.7	364.1	348.8	339.5	334.8
62.5°	336.1	325.5	312.8	302.9	298.9
65°	298.9	290.9	276.2	265.6	264.2
67.5°	261.6	254.9	242.3	231.6	232.3
70°	225.0	219.0	208.3	201.7	205.7
72.5°	190.4	187.0	175.1	170.4	172.4
75°	153.1	151.1	145.8	137.1	135.1
77.5°	121.8	123.1	117.1	106.5	103.8
80°	90.5	93.9	84.5	81.2	77.9
82.5°	62.6	67.2	59.2	56.6	55.2
85°	36.6	38.6	36.6	35.9	35.9
87.5°	15.3	18.0	18.0	18.6	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)