

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: P601221

Luminaire Tested: 14D3X-LP-25-L940

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601221
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-25-L940
Description: 1x4 D3X-LP AT 2500lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

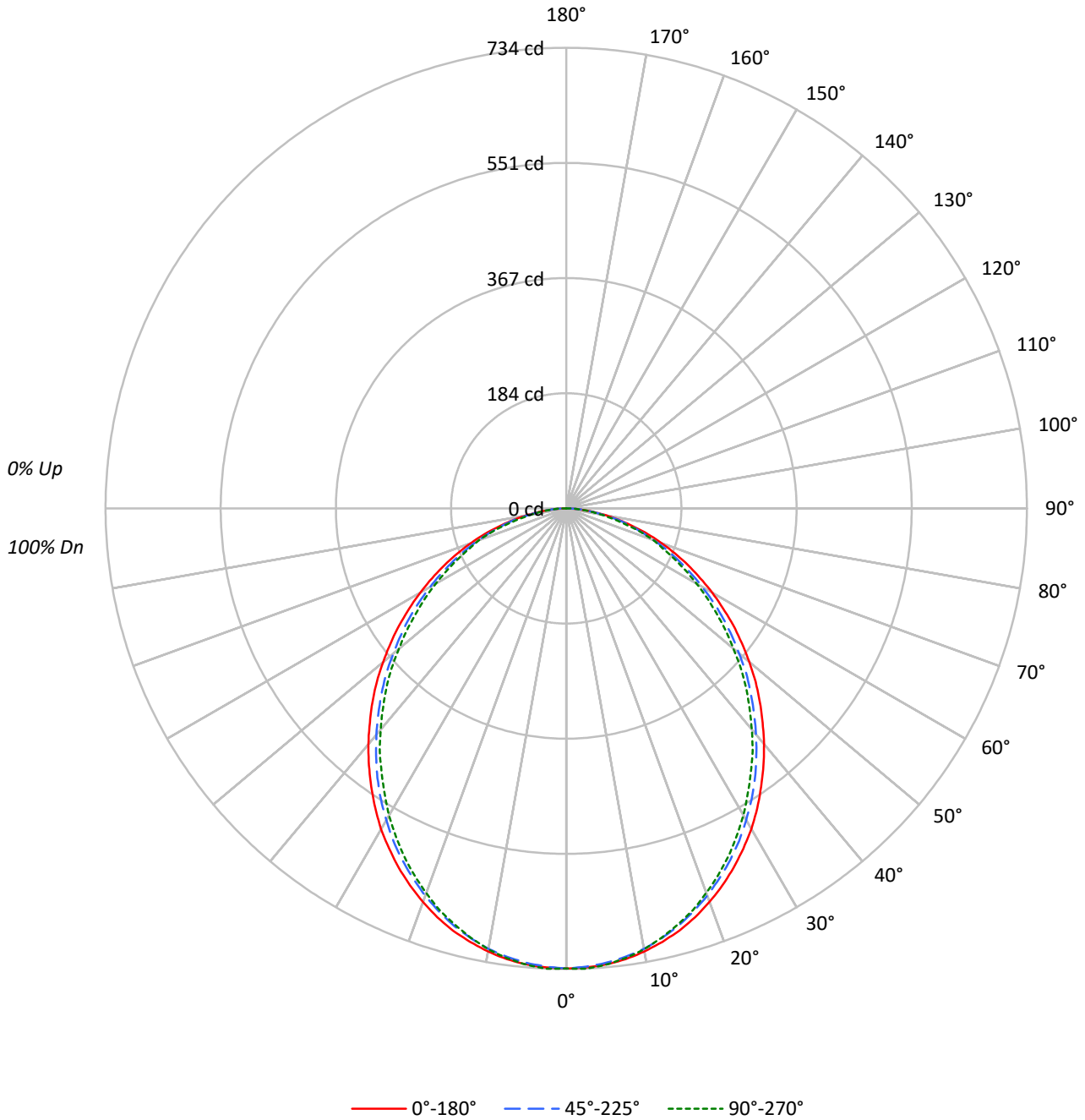
Lumens per Lamp: N/A
Luminaire Lumens: 1814.0 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 22.7
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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	1973	1973	1973
5°	1970	1964	1972
10°	1959	1947	1950
15°	1940	1919	1913
20°	1911	1881	1867
25°	1875	1836	1816
30°	1834	1782	1755
35°	1779	1722	1685
40°	1723	1652	1616
45°	1661	1581	1543
50°	1594	1504	1456
55°	1524	1432	1372
60°	1446	1345	1292
65°	1364	1261	1206
70°	1268	1175	1160
75°	1141	1087	1006
80°	1006	939	865
85°	809	809	797

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1661 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	3.8
10°-20°	194.5	10.7
20°-30°	285.2	15.7
30°-40°	328.5	18.1
40°-50°	322.4	17.8
50°-60°	274.3	15.1
60°-70°	198.3	10.9
70°-80°	110.8	6.1
80°-90°	30.9	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°	548.8	30.3
0°-40°	877.4	48.4
0°-60°	1474.0	81.3
0°-90°	1814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	729	729	727	729	730	69
15°	696	694	689	688	686	196
25°	632	626	618	614	612	291
35°	542	534	524	516	513	339
45°	436	428	416	407	406	337
55°	325	316	305	297	292	290
65°	214	208	198	190	189	212
75°	110	108	104	98	97	118
85°	26	28	26	26	26	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	733.2	733.2	733.2	733.2	733.2
2.5°	732.3	732.3	730.8	733.7	734.2
5°	729.4	729.4	727.0	729.4	729.9
7.5°	724.6	723.7	720.8	722.7	722.7
10°	717.0	716.1	712.7	713.2	713.7
12.5°	707.5	706.0	701.7	701.3	700.8
15°	696.5	694.1	688.9	687.9	686.5
17.5°	683.1	679.8	673.6	672.2	671.2
20°	667.4	663.1	656.9	653.6	652.1
22.5°	650.2	645.5	637.8	634.5	632.6
25°	631.6	626.4	618.3	613.5	611.6
27.5°	611.1	605.4	596.8	590.6	588.2
30°	590.1	583.0	573.4	567.2	564.8
32.5°	566.3	558.6	549.6	541.9	538.6
35°	541.5	534.3	524.3	516.2	512.8
37.5°	516.2	509.5	497.6	490.4	488.0
40°	490.4	482.8	470.4	461.8	459.9
42.5°	463.2	456.5	442.7	435.5	432.2
45°	436.5	427.9	415.5	407.4	405.5
47.5°	409.3	399.8	388.8	379.7	377.3
50°	380.7	372.1	359.2	351.1	347.8
52.5°	352.5	344.9	332.0	323.0	320.6
55°	324.9	316.3	305.3	296.7	292.4
57.5°	295.8	289.1	277.6	269.5	266.2
60°	268.6	260.9	250.0	243.3	240.0
62.5°	240.9	233.3	224.2	217.1	214.2
65°	214.2	208.5	198.0	190.3	189.4
67.5°	187.5	182.7	173.6	166.0	166.5
70°	161.2	156.9	149.3	144.5	147.4
72.5°	136.4	134.1	125.5	122.1	123.6
75°	109.7	108.3	104.5	98.3	96.8
77.5°	87.3	88.3	84.0	76.3	74.4
80°	64.9	67.3	60.6	58.2	55.8
82.5°	44.8	48.2	42.5	40.5	39.6
85°	26.2	27.7	26.2	25.8	25.8
87.5°	11.0	12.9	12.9	13.4	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)