

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: P601213

Luminaire Tested: 14D3X-LP-20-L930

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601213
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-L930
Description: 1x4 D3X-LP AT 2000lm 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

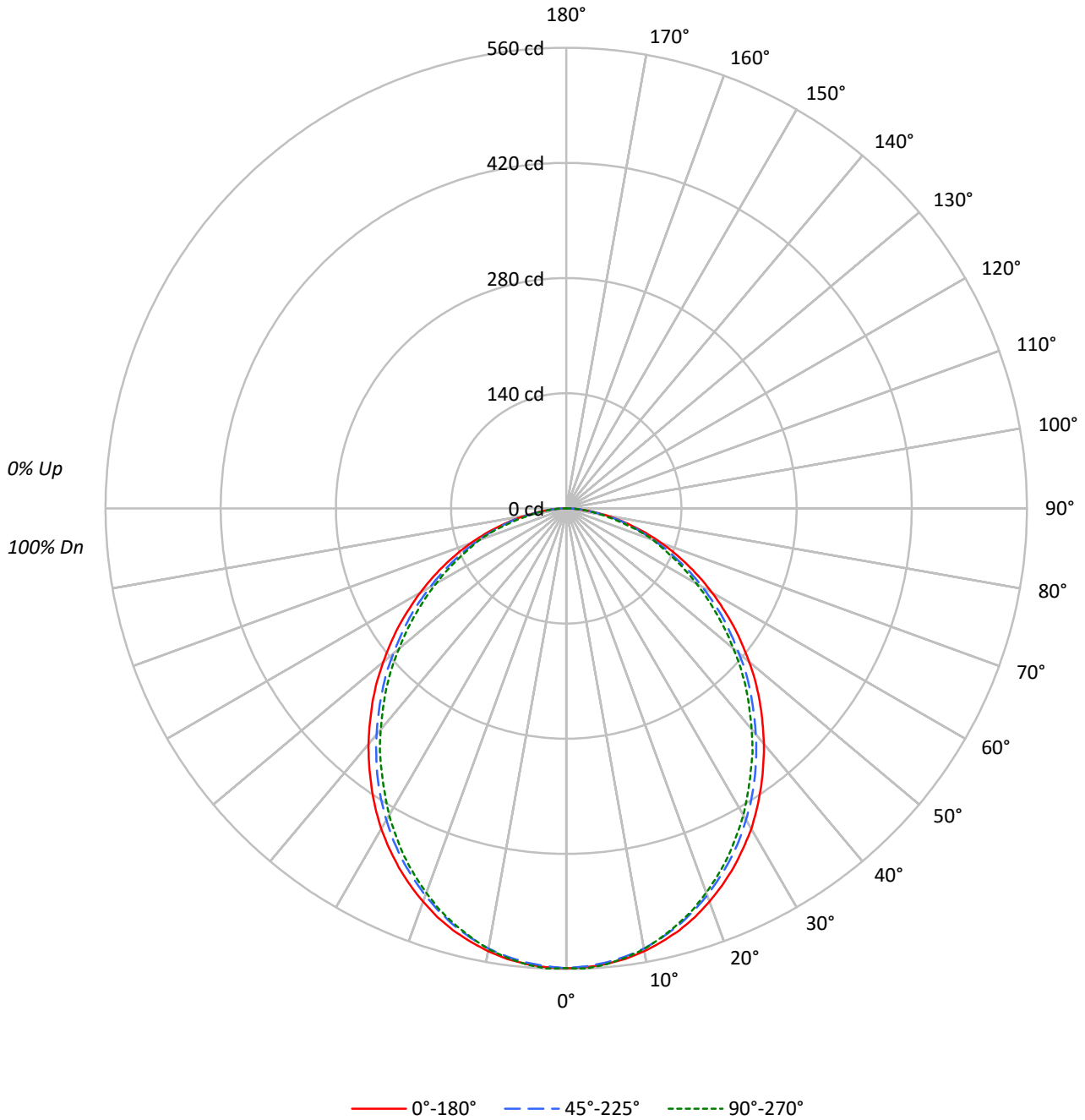
Lumens per Lamp: N/A
Luminaire Lumens: 1383.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	1504	1504	1504
5°	1502	1497	1503
10°	1494	1485	1487
15°	1479	1463	1458
20°	1457	1434	1424
25°	1430	1400	1385
30°	1398	1359	1338
35°	1356	1313	1284
40°	1313	1260	1232
45°	1267	1206	1176
50°	1215	1147	1110
55°	1162	1092	1046
60°	1102	1026	984
65°	1040	961	919
70°	967	895	884
75°	870	829	767
80°	767	716	660
85°	618	618	605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1267 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	3.8
10°-20°	148.3	10.7
20°-30°	217.5	15.7
30°-40°	250.5	18.1
40°-50°	245.8	17.8
50°-60°	209.1	15.1
60°-70°	151.2	10.9
70°-80°	84.5	6.1
80°-90°	23.5	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°	418.4	30.3
0°-40°	668.9	48.4
0°-60°	1123.8	81.3
0°-90°	1383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1383.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	559	559	559	559	559	
5°	556	556	554	556	556	53
15°	531	529	525	524	523	150
25°	482	478	471	468	466	222
35°	413	407	400	394	391	258
45°	333	326	317	311	309	257
55°	248	241	233	226	223	221
65°	163	159	151	145	144	162
75°	84	83	80	75	74	90
85°	20	21	20	20	20	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	559.0	559.0	559.0	559.0	559.0
2.5°	558.3	558.3	557.2	559.4	559.7
5°	556.1	556.1	554.3	556.1	556.5
7.5°	552.5	551.7	549.6	551.0	551.0
10°	546.6	545.9	543.4	543.7	544.1
12.5°	539.4	538.3	535.0	534.6	534.3
15°	531.0	529.2	525.2	524.5	523.4
17.5°	520.8	518.3	513.6	512.5	511.7
20°	508.8	505.6	500.8	498.3	497.2
22.5°	495.7	492.1	486.3	483.7	482.3
25°	481.5	477.5	471.4	467.7	466.3
27.5°	465.9	461.5	455.0	450.3	448.4
30°	449.9	444.4	437.2	432.4	430.6
32.5°	431.7	425.9	419.0	413.2	410.6
35°	412.8	407.4	399.7	393.5	391.0
37.5°	393.5	388.4	379.3	373.9	372.1
40°	373.9	368.1	358.6	352.1	350.6
42.5°	353.2	348.1	337.5	332.1	329.5
45°	332.8	326.2	316.8	310.6	309.1
47.5°	312.1	304.8	296.4	289.5	287.7
50°	290.2	283.7	273.9	267.7	265.1
52.5°	268.8	263.0	253.1	246.2	244.4
55°	247.7	241.1	232.8	226.2	223.0
57.5°	225.5	220.4	211.7	205.5	202.9
60°	204.8	198.9	190.6	185.5	182.9
62.5°	183.7	177.9	170.9	165.5	163.3
65°	163.3	158.9	150.9	145.1	144.4
67.5°	142.9	139.3	132.4	126.6	126.9
70°	122.9	119.7	113.8	110.2	112.4
72.5°	104.0	102.2	95.7	93.1	94.2
75°	83.7	82.6	79.7	74.9	73.8
77.5°	66.6	67.3	64.0	58.2	56.7
80°	49.5	51.3	46.2	44.4	42.6
82.5°	34.2	36.7	32.4	30.9	30.2
85°	20.0	21.1	20.0	19.6	19.6
87.5°	8.4	9.8	9.8	10.2	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)