

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: P601228

Luminaire Tested: 14D3X-LP-35-L830

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601228
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-35-L830
Description: 1x4 D3X-LP AT 3500lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

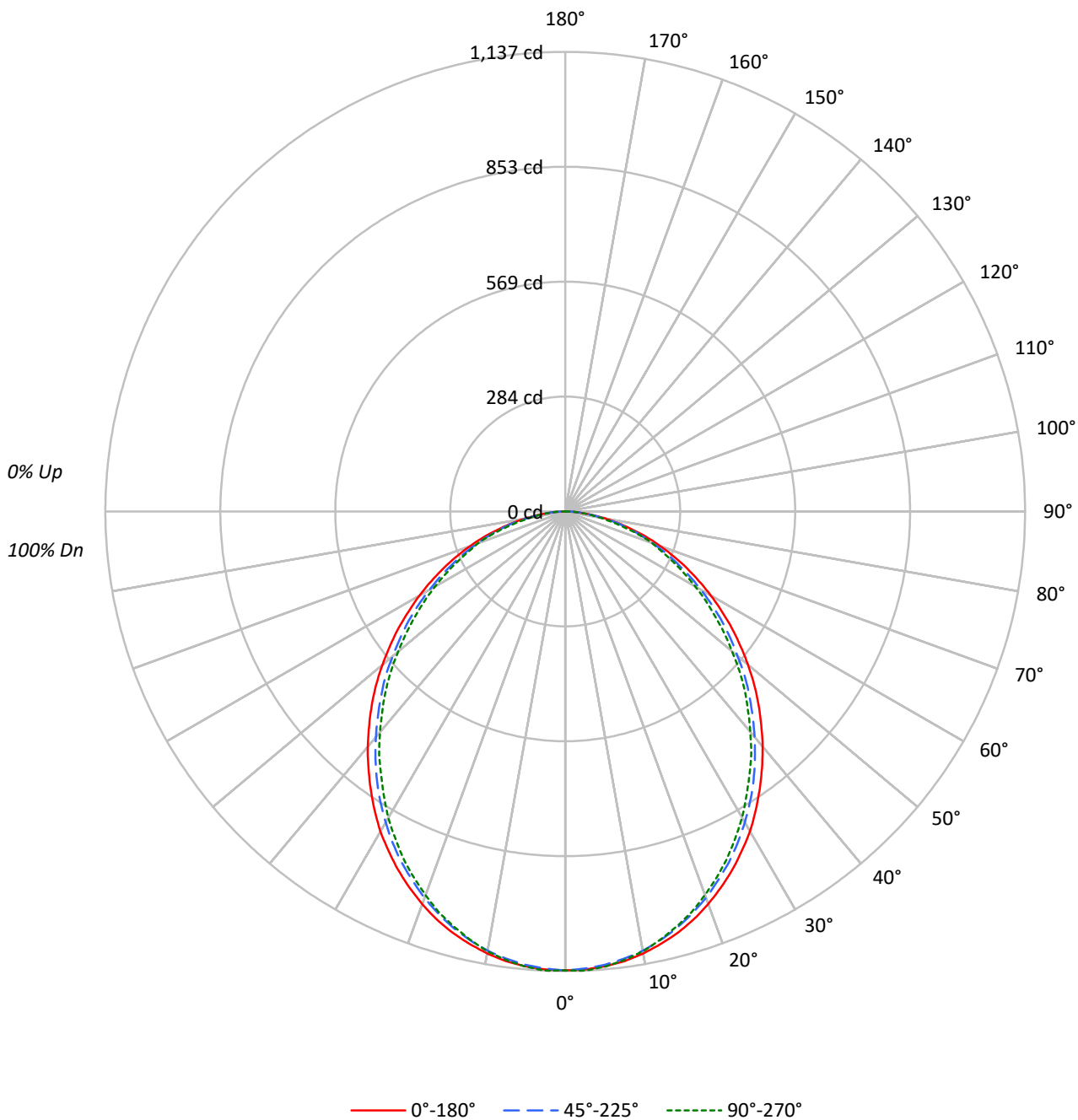
Lumens per Lamp: N/A
Luminaire Lumens: 2809.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.8
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	
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°	3055	3055	3055
5°	3051	3041	3053
10°	3034	3016	3020
15°	3005	2972	2961
20°	2960	2913	2892
25°	2904	2843	2812
30°	2839	2759	2718
35°	2754	2667	2609
40°	2668	2559	2501
45°	2572	2449	2390
50°	2468	2329	2254
55°	2360	2218	2124
60°	2238	2083	2000
65°	2112	1952	1868
70°	1965	1819	1796
75°	1766	1682	1560
80°	1557	1454	1339
85°	1254	1254	1232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2572 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.8
10°-20°	301.2	10.7
20°-30°	441.7	15.7
30°-40°	508.7	18.1
40°-50°	499.2	17.8
50°-60°	424.7	15.1
60°-70°	307.1	10.9
70°-80°	171.6	6.1
80°-90°	47.8	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°	849.9	30.3
0°-40°	1358.6	48.4
0°-60°	2282.5	81.3
0°-90°	2809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2809.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1130	1130	1126	1130	1130	107
15°	1078	1075	1067	1065	1063	304
25°	978	970	957	950	947	450
35°	838	827	812	799	794	524
45°	676	663	643	631	628	521
55°	503	490	473	460	453	449
65°	332	323	307	295	293	328
75°	170	168	162	152	150	182
85°	41	43	41	40	40	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1135.4	1135.4	1135.4	1135.4	<i>1135.4</i>
2.5°	<i>1133.9</i>	<i>1133.9</i>	<i>1131.7</i>	<i>1136.2</i>	<i>1136.9</i>
5°	1129.5	1129.5	1125.8	1129.5	<i>1130.2</i>
7.5°	1122.1	1120.6	1116.2	1119.2	<i>1119.2</i>
10°	1110.3	1108.8	1103.6	1104.4	<i>1105.1</i>
12.5°	1095.5	1093.3	1086.7	1085.9	<i>1085.2</i>
15°	1078.5	1074.8	1066.7	1065.2	<i>1063.0</i>
17.5°	1057.8	1052.7	1043.1	1040.9	<i>1039.4</i>
20°	1033.5	1026.8	1017.2	1012.0	<i>1009.8</i>
22.5°	1006.9	999.5	987.7	982.5	<i>979.5</i>
25°	978.1	969.9	957.4	950.0	<i>947.0</i>
27.5°	946.3	937.4	924.1	914.5	<i>910.8</i>
30°	913.8	902.7	887.9	878.3	<i>874.6</i>
32.5°	876.9	865.0	851.0	839.2	<i>834.0</i>
35°	838.4	827.4	811.9	799.3	<i>794.1</i>
37.5°	799.3	789.0	770.5	759.4	<i>755.7</i>
40°	759.4	747.6	728.4	715.1	<i>712.1</i>
42.5°	717.3	707.0	685.5	674.5	<i>669.3</i>
45°	675.9	662.6	643.4	630.9	<i>627.9</i>
47.5°	633.8	619.0	602.1	588.0	<i>584.3</i>
50°	589.5	576.2	556.3	543.7	<i>538.5</i>
52.5°	545.9	534.1	514.1	500.1	<i>496.4</i>
55°	503.1	489.8	472.8	459.5	<i>452.8</i>
57.5°	458.0	447.7	429.9	417.4	<i>412.2</i>
60°	415.9	404.1	387.1	376.7	<i>371.6</i>
62.5°	373.1	361.2	347.2	336.1	<i>331.7</i>
65°	331.7	322.8	306.6	294.7	<i>293.3</i>
67.5°	290.3	282.9	268.9	257.1	<i>257.8</i>
70°	249.7	243.0	231.2	223.8	<i>228.3</i>
72.5°	211.3	207.6	194.3	189.1	<i>191.3</i>
75°	169.9	167.7	161.8	152.2	<i>150.0</i>
77.5°	135.2	136.7	130.0	118.2	<i>115.2</i>
80°	100.5	104.2	93.8	90.1	<i>86.4</i>
82.5°	69.4	74.6	65.7	62.8	<i>61.3</i>
85°	40.6	42.8	40.6	39.9	<i>39.9</i>
87.5°	17.0	19.9	19.9	20.7	<i>21.4</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)