

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: P601245

Luminaire Tested: 14D3X-LP-45-L940

Issue Date: 10/6/2023

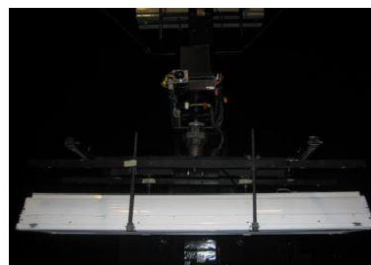
Test Information

Test Method: LM-79-2019
Report Number: P601245
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-45-L940
Description: 1x4 D3X-LP AT 4500lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

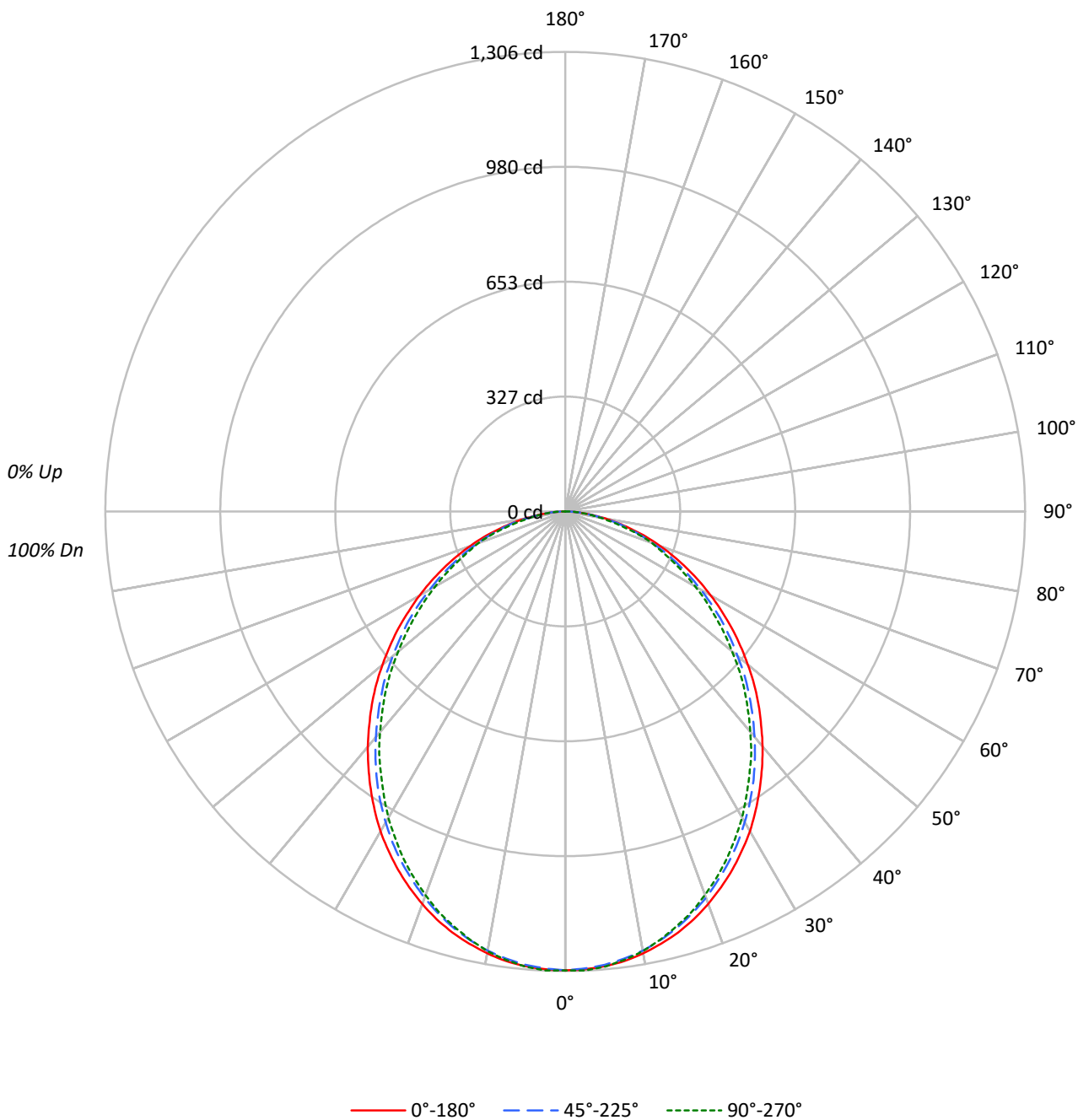
Lumens per Lamp: N/A
Luminaire Lumens: 3226.0 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.9
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
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3509	3509	3509
5°	3504	3492	3506
10°	3484	3463	3468
15°	3451	3413	3401
20°	3399	3345	3321
25°	3335	3265	3229
30°	3261	3169	3121
35°	3163	3063	2996
40°	3064	2938	2873
45°	2954	2812	2744
50°	2834	2674	2589
55°	2710	2548	2440
60°	2570	2393	2296
65°	2425	2242	2145
70°	2257	2089	2063
75°	2028	1932	1790
80°	1788	1669	1539
85°	1442	1442	1414

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2954 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	3.8
10°-20°	345.9	10.7
20°-30°	507.2	15.7
30°-40°	584.3	18.1
40°-50°	573.3	17.8
50°-60°	487.8	15.1
60°-70°	352.7	10.9
70°-80°	197.1	6.1
80°-90°	54.9	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°	976.0	30.3
0°-40°	1560.3	48.4
0°-60°	2621.4	81.3
0°-90°	3226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1297	1297	1293	1297	1298	123
15°	1239	1234	1225	1223	1221	349
25°	1123	1114	1100	1091	1088	517
35°	963	950	932	918	912	602
45°	776	761	739	724	721	599
55°	578	562	543	528	520	516
65°	381	371	352	338	337	377
75°	195	193	186	175	172	209
85°	47	49	47	46	46	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.0	1304.0	1304.0	1304.0	1304.0
2.5°	1302.3	1302.3	1299.7	1304.8	1305.7
5°	1297.2	1297.2	1292.9	1297.2	1298.0
7.5°	1288.7	1287.0	1281.9	1285.3	1285.3
10°	1275.1	1273.4	1267.5	1268.3	1269.2
12.5°	1258.2	1255.6	1248.0	1247.1	1246.3
15°	1238.6	1234.4	1225.1	1223.4	1220.8
17.5°	1214.9	1208.9	1197.9	1195.4	1193.7
20°	1186.9	1179.3	1168.2	1162.3	1159.7
22.5°	1156.3	1147.9	1134.3	1128.4	1125.0
25°	1123.3	1113.9	1099.5	1091.0	1087.6
27.5°	1086.8	1076.6	1061.3	1050.3	1046.1
30°	1049.5	1036.7	1019.8	1008.7	1004.5
32.5°	1007.0	993.5	977.3	963.8	957.8
35°	962.9	950.2	932.4	918.0	912.0
37.5°	918.0	906.1	884.9	872.1	867.9
40°	872.1	858.6	836.5	821.2	817.8
42.5°	823.8	811.9	787.3	774.6	768.6
45°	776.3	761.0	738.9	724.5	721.1
47.5°	727.9	710.9	691.4	675.3	671.1
50°	677.0	661.7	638.8	624.4	618.5
52.5°	627.0	613.4	590.5	574.4	570.1
55°	577.7	562.5	543.0	527.7	520.1
57.5°	526.0	514.1	493.8	479.3	473.4
60°	477.6	464.1	444.6	432.7	426.7
62.5°	428.4	414.9	398.7	386.0	380.9
65°	380.9	370.7	352.1	338.5	336.8
67.5°	333.4	324.9	308.8	295.2	296.1
70°	286.8	279.1	265.5	257.1	262.2
72.5°	242.6	238.4	223.1	217.2	219.7
75°	195.1	192.6	185.8	174.8	172.2
77.5°	155.3	157.0	149.3	135.7	132.3
80°	115.4	119.6	107.7	103.5	99.3
82.5°	79.7	85.7	75.5	72.1	70.4
85°	46.7	49.2	46.7	45.8	45.8
87.5°	19.5	22.9	22.9	23.8	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)