

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: P601240

Luminaire Tested: 14D3X-LP-45-L830

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601240
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-L830
Description: 1x4 D3X-LP AT 4500lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

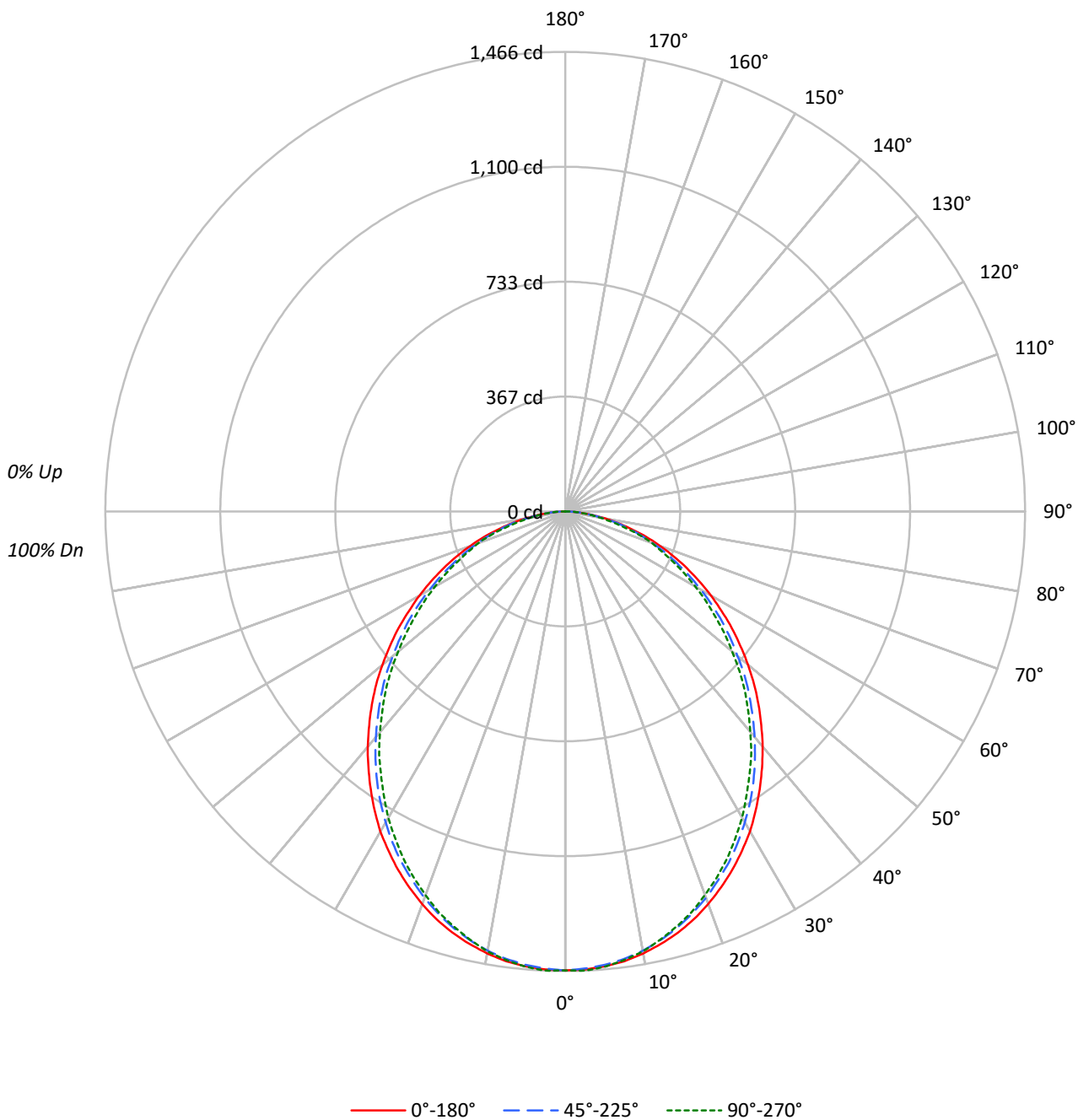
Lumens per Lamp: N/A
Luminaire Lumens: 3622.0 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	3940	3940	3940
5°	3934	3921	3937
10°	3912	3889	3894
15°	3874	3832	3819
20°	3816	3756	3729
25°	3744	3665	3626
30°	3661	3558	3504
35°	3551	3439	3364
40°	3440	3299	3225
45°	3317	3157	3081
50°	3182	3003	2907
55°	3043	2860	2739
60°	2886	2686	2578
65°	2723	2517	2408
70°	2533	2345	2316
75°	2278	2169	2011
80°	2007	1875	1726
85°	1618	1618	1587

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3317 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	3.8
10°-20°	388.4	10.7
20°-30°	569.5	15.7
30°-40°	656.0	18.1
40°-50°	643.7	17.8
50°-60°	547.7	15.1
60°-70°	396.0	10.9
70°-80°	221.2	6.1
80°-90°	61.6	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°	1095.9	30.3
0°-40°	1751.8	48.4
0°-60°	2943.2	81.3
0°-90°	3622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3622.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1456	1456	1452	1456	1457	138
15°	1391	1386	1375	1374	1371	392
25°	1261	1251	1234	1225	1221	581
35°	1081	1067	1047	1031	1024	676
45°	872	854	830	814	810	672
55°	649	632	610	592	584	579
65°	428	416	395	380	378	424
75°	219	216	209	196	193	235
85°	52	55	52	51	51	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1464.0	1464.0	1464.0	1464.0	1464.0
2.5°	1462.1	1462.1	1459.3	1465.0	1465.9
5°	1456.4	1456.4	1451.6	1456.4	1457.4
7.5°	1446.9	1445.0	1439.3	1443.1	1443.1
10°	1431.6	1429.7	1423.1	1424.0	1425.0
12.5°	1412.6	1409.7	1401.2	1400.2	1399.3
15°	1390.7	1385.9	1375.4	1373.5	1370.7
17.5°	1364.0	1357.3	1345.0	1342.1	1340.2
20°	1332.6	1324.0	1311.6	1305.0	1302.1
22.5°	1298.3	1288.8	1273.5	1266.9	1263.0
25°	1261.1	1250.7	1234.5	1224.9	1221.1
27.5°	1220.2	1208.8	1191.6	1179.2	1174.5
30°	1178.3	1164.0	1144.9	1132.6	1127.8
32.5°	1130.6	1115.4	1097.3	1082.1	1075.4
35°	1081.1	1066.8	1046.8	1030.6	1024.0
37.5°	1030.6	1017.3	993.5	979.2	974.4
40°	979.2	964.0	939.2	922.0	918.2
42.5°	924.9	911.6	883.9	869.7	863.0
45°	871.6	854.4	829.6	813.5	809.6
47.5°	817.3	798.2	776.3	758.2	753.4
50°	760.1	743.0	717.3	701.1	694.4
52.5°	703.9	688.7	663.0	644.9	640.1
55°	648.7	631.5	609.6	592.5	583.9
57.5°	590.6	577.2	554.4	538.2	531.5
60°	536.3	521.0	499.1	485.8	479.1
62.5°	481.0	465.8	447.7	433.4	427.7
65°	427.7	416.3	395.3	380.1	378.2
67.5°	374.3	364.8	346.7	331.5	332.4
70°	322.0	313.4	298.1	288.6	294.3
72.5°	272.4	267.7	250.5	243.8	246.7
75°	219.1	216.2	208.6	196.2	193.4
77.5°	174.3	176.2	167.6	152.4	148.6
80°	129.5	134.3	121.0	116.2	111.4
82.5°	89.5	96.2	84.8	81.0	79.1
85°	52.4	55.2	52.4	51.4	51.4
87.5°	21.9	25.7	25.7	26.7	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)