

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: P601241

Luminaire Tested: 14D3X-LP-45-L835

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601241
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-L835
Description: 1x4 D3X-LP AT 4500lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

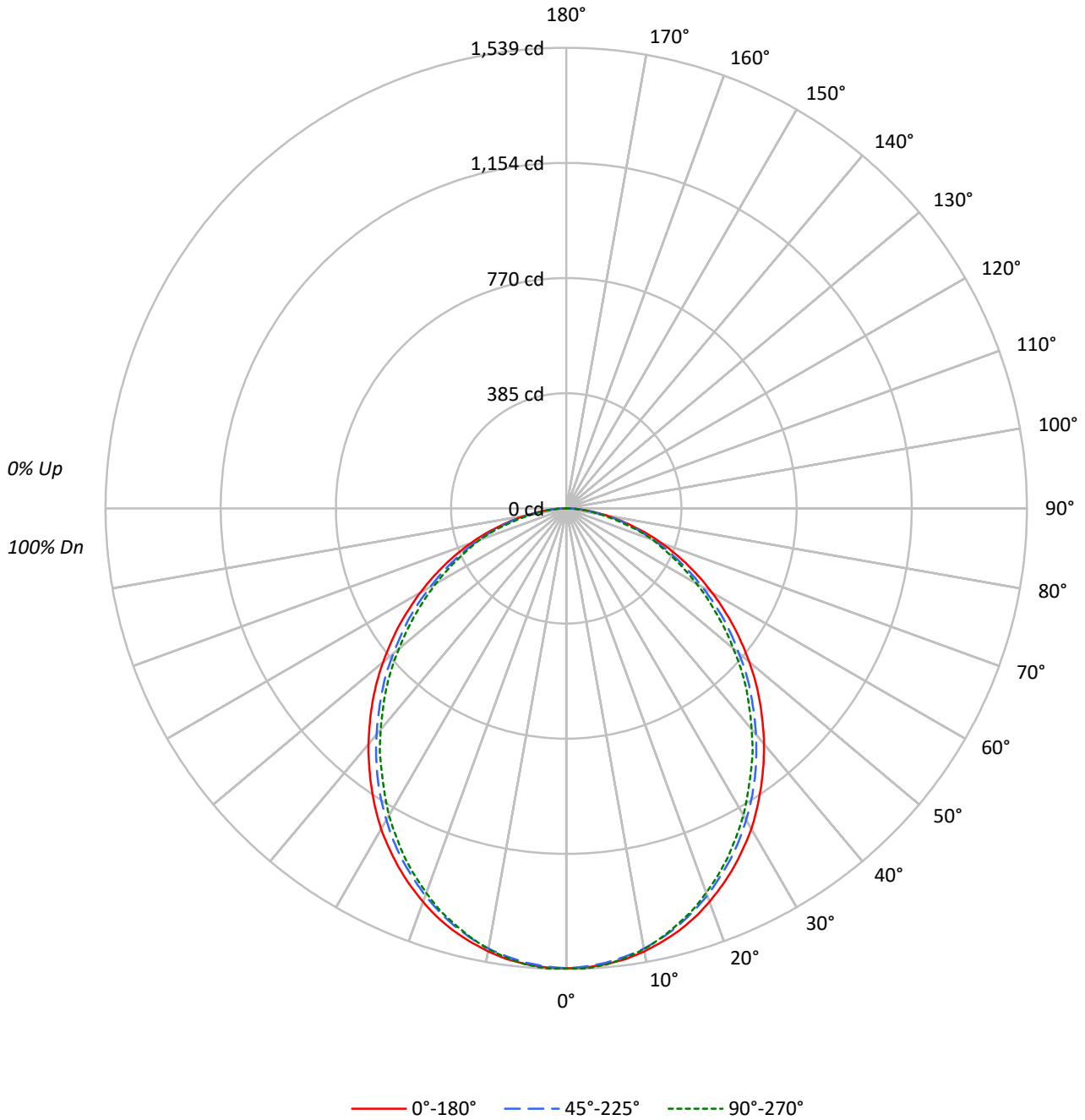
Lumens per Lamp: N/A
Luminaire Lumens: 3802.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	4135	4135	4135
5°	4130	4116	4132
10°	4106	4082	4087
15°	4067	4022	4008
20°	4006	3943	3914
25°	3931	3847	3806
30°	3843	3734	3678
35°	3728	3610	3531
40°	3611	3463	3386
45°	3482	3314	3234
50°	3340	3152	3051
55°	3194	3002	2875
60°	3030	2820	2707
65°	2858	2642	2527
70°	2659	2463	2431
75°	2391	2277	2111
80°	2108	1968	1813
85°	1698	1698	1667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3482 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	3.8
10°-20°	407.7	10.7
20°-30°	597.8	15.7
30°-40°	688.6	18.1
40°-50°	675.7	17.8
50°-60°	574.9	15.1
60°-70°	415.6	10.9
70°-80°	232.3	6.1
80°-90°	64.7	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°	1150.3	30.3
0°-40°	1838.9	48.4
0°-60°	3089.4	81.3
0°-90°	3802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1529	1529	1524	1529	1530	145
15°	1460	1455	1444	1442	1439	411
25°	1324	1313	1296	1286	1282	609
35°	1135	1120	1099	1082	1075	710
45°	915	897	871	854	850	706
55°	681	663	640	622	613	608
65°	449	437	415	399	397	445
75°	230	227	219	206	203	247
85°	55	58	55	54	54	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.8	1536.8	1536.8	1536.8	1536.8
2.5°	1534.8	1534.8	1531.8	1537.8	1538.8
5°	1528.8	1528.8	1523.8	1528.8	1529.8
7.5°	1518.8	1516.8	1510.8	1514.8	1514.8
10°	1502.8	1500.8	1493.8	1494.8	1495.8
12.5°	1482.8	1479.8	1470.8	1469.8	1468.8
15°	1459.8	1454.8	1443.8	1441.8	1438.8
17.5°	1431.8	1424.8	1411.8	1408.8	1406.8
20°	1398.8	1389.8	1376.8	1369.8	1366.8
22.5°	1362.8	1352.8	1336.8	1329.8	1325.8
25°	1323.8	1312.8	1295.8	1285.8	1281.8
27.5°	1280.8	1268.8	1250.8	1237.8	1232.8
30°	1236.8	1221.8	1201.8	1188.8	1183.8
32.5°	1186.8	1170.8	1151.8	1135.8	1128.8
35°	1134.8	1119.8	1098.8	1081.9	1074.9
37.5°	1081.9	1067.9	1042.9	1027.9	1022.9
40°	1027.9	1011.9	985.9	967.9	963.9
42.5°	970.9	956.9	927.9	912.9	905.9
45°	914.9	896.9	870.9	853.9	849.9
47.5°	857.9	837.9	814.9	795.9	790.9
50°	797.9	779.9	752.9	735.9	728.9
52.5°	738.9	722.9	695.9	676.9	671.9
55°	680.9	662.9	639.9	621.9	612.9
57.5°	619.9	605.9	581.9	564.9	557.9
60°	562.9	546.9	523.9	509.9	502.9
62.5°	504.9	488.9	469.9	454.9	448.9
65°	448.9	436.9	414.9	398.9	396.9
67.5°	392.9	382.9	363.9	348.0	349.0
70°	338.0	329.0	313.0	303.0	309.0
72.5°	286.0	281.0	263.0	256.0	259.0
75°	230.0	227.0	219.0	206.0	203.0
77.5°	183.0	185.0	176.0	160.0	156.0
80°	136.0	141.0	127.0	122.0	117.0
82.5°	94.0	101.0	89.0	85.0	83.0
85°	55.0	58.0	55.0	54.0	54.0
87.5°	23.0	27.0	27.0	28.0	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)