

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: P601253

Luminaire Tested: 14D3X-LP-55-L835

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601253
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-55-L835
Description: 1x4 D3X-LP AT 5500lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

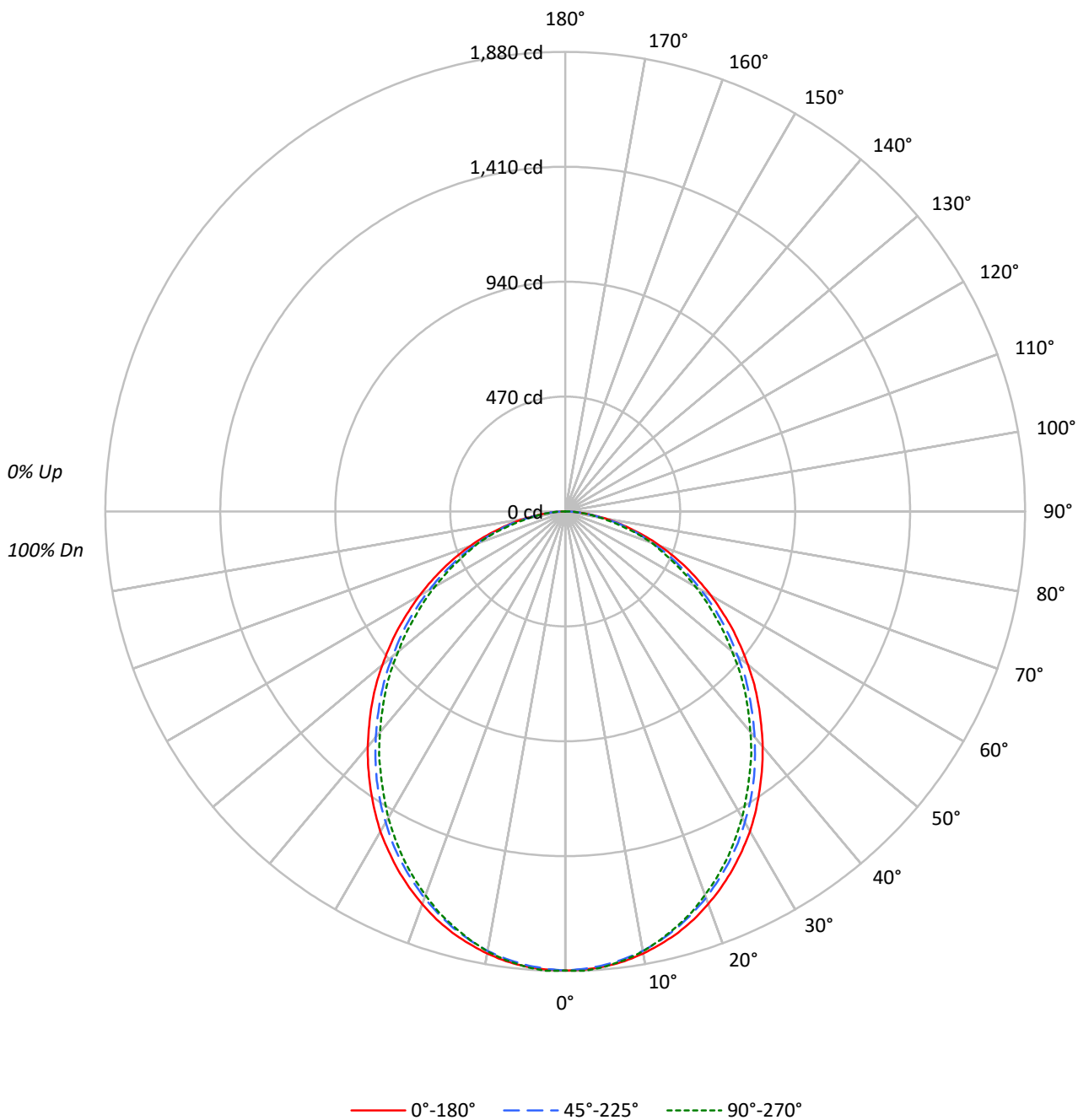
Lumens per Lamp: N/A
Luminaire Lumens: 4646.0 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 54.1
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°	5053	5053	5053
5°	5046	5030	5050
10°	5018	4988	4994
15°	4970	4915	4898
20°	4895	4818	4783
25°	4803	4702	4651
30°	4696	4563	4495
35°	4556	4411	4315
40°	4412	4232	4137
45°	4255	4050	3952
50°	4082	3852	3729
55°	3904	3669	3514
60°	3702	3446	3308
65°	3493	3229	3089
70°	3249	3009	2970
75°	2922	2782	2578
80°	2576	2405	2216
85°	2075	2075	2038

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4255 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	3.8
10°-20°	498.1	10.7
20°-30°	730.5	15.7
30°-40°	841.4	18.1
40°-50°	825.7	17.8
50°-60°	702.5	15.1
60°-70°	507.9	10.9
70°-80°	283.8	6.1
80°-90°	79.1	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°	1405.7	30.3
0°-40°	2247.1	48.4
0°-60°	3775.2	81.3
0°-90°	4646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4646.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1878	1878	1878	1878	1878	
5°	1868	1868	1862	1868	1869	177
15°	1784	1778	1764	1762	1758	503
25°	1618	1604	1584	1571	1566	745
35°	1387	1368	1343	1322	1314	867
45°	1118	1096	1064	1043	1038	862
55°	832	810	782	760	749	743
65°	549	534	507	488	485	543
75°	281	277	268	252	248	301
85°	67	71	67	66	66	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1877.9	1877.9	1877.9	1877.9	1877.9
2.5°	1875.5	1875.5	1871.8	1879.2	1880.4
5°	1868.2	1868.2	1862.1	1868.2	1869.4
7.5°	1855.9	1853.5	1846.2	1851.1	1851.1
10°	1836.4	1834.0	1825.4	1826.6	1827.8
12.5°	1812.0	1808.3	1797.3	1796.1	1794.9
15°	1783.9	1777.7	1764.3	1761.9	1758.2
17.5°	1749.6	1741.1	1725.2	1721.5	1719.1
20°	1709.3	1698.3	1682.4	1673.9	1670.2
22.5°	1665.3	1653.1	1633.6	1625.0	1620.1
25°	1617.7	1604.2	1583.5	1571.3	1566.4
27.5°	1565.2	1550.5	1528.5	1512.6	1506.5
30°	1511.4	1493.1	1468.6	1452.7	1446.6
32.5°	1450.3	1430.8	1407.5	1388.0	1379.4
35°	1386.8	1368.4	1342.8	1322.0	1313.5
37.5°	1322.0	1304.9	1274.4	1256.0	1249.9
40°	1256.0	1236.5	1204.7	1182.7	1177.8
42.5°	1186.4	1169.3	1133.8	1115.5	1107.0
45°	1118.0	1096.0	1064.2	1043.4	1038.5
47.5°	1048.3	1023.9	995.8	972.6	966.5
50°	975.0	953.0	920.0	899.3	890.7
52.5°	902.9	883.4	850.4	827.2	821.1
55°	832.1	810.1	782.0	760.0	749.0
57.5°	757.5	740.4	711.1	690.3	681.8
60°	687.9	668.3	640.2	623.1	614.6
62.5°	617.0	597.5	574.3	555.9	548.6
65°	548.6	533.9	507.1	487.5	485.1
67.5°	480.2	468.0	444.7	425.2	426.4
70°	413.0	402.0	382.4	370.2	377.5
72.5°	349.4	343.3	321.3	312.8	316.5
75°	281.0	277.4	267.6	251.7	248.0
77.5°	223.6	226.0	215.0	195.5	190.6
80°	166.2	172.3	155.2	149.1	143.0
82.5°	114.9	123.4	108.7	103.9	101.4
85°	67.2	70.9	67.2	66.0	66.0
87.5°	28.1	33.0	33.0	34.2	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)