

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: P601257

Luminaire Tested: 14D3X-LP-55-L940

Issue Date: 10/6/2023

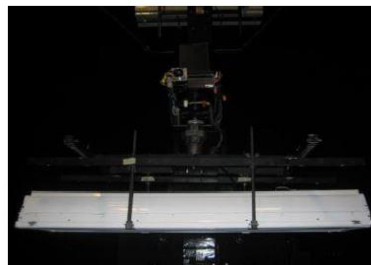
Test Information

Test Method: LM-79-2019
Report Number: P601257
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-L940
Description: 1x4 D3X-LP AT 5500lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

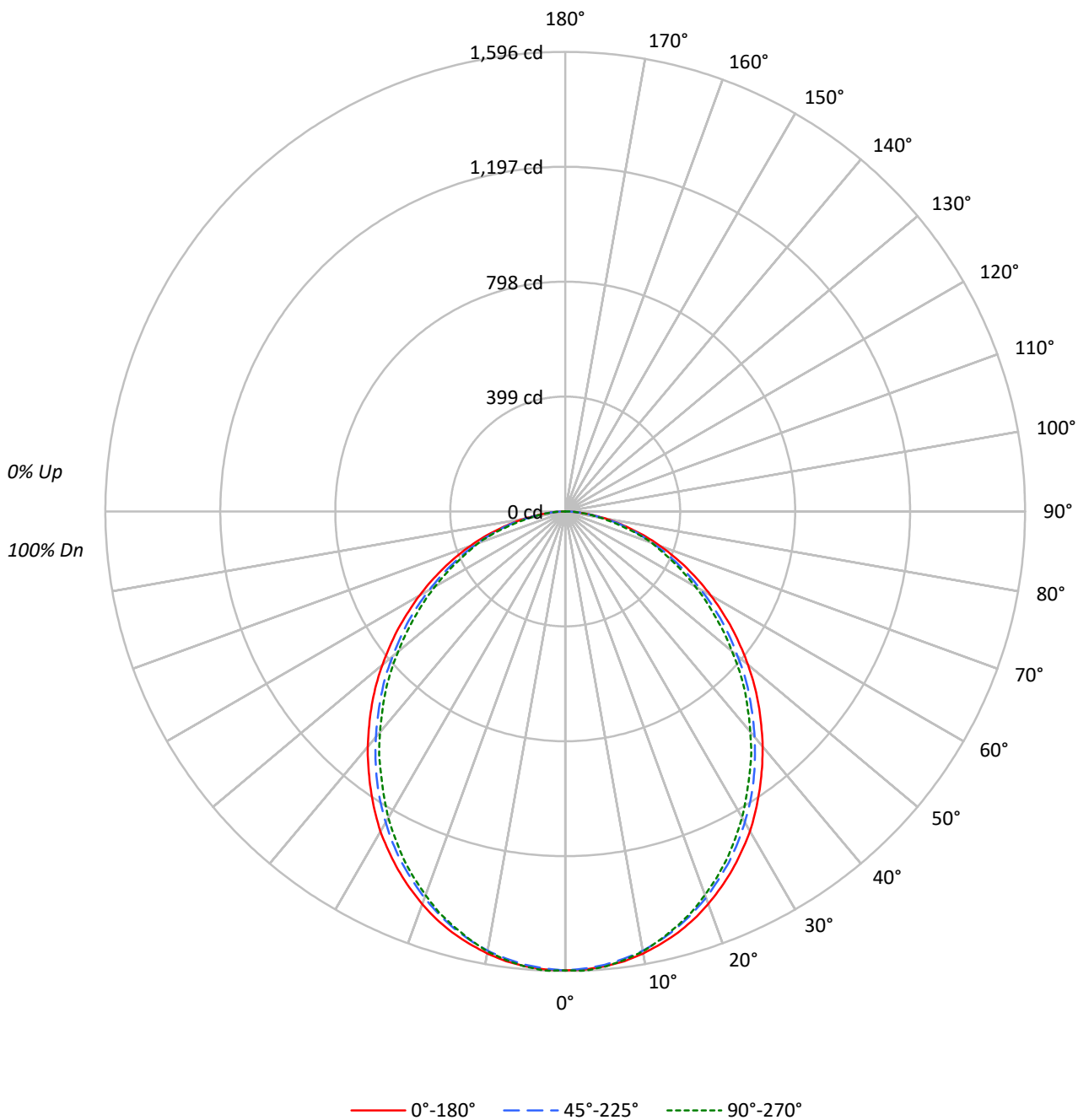
Lumens per Lamp: N/A
Luminaire Lumens: 3943.0 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	
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°	4289	4289	4289
5°	4283	4269	4286
10°	4259	4233	4239
15°	4218	4171	4157
20°	4154	4089	4059
25°	4076	3990	3947
30°	3986	3873	3815
35°	3866	3744	3662
40°	3745	3592	3511
45°	3611	3437	3354
50°	3464	3269	3165
55°	3313	3113	2982
60°	3142	2925	2807
65°	2965	2740	2621
70°	2758	2554	2521
75°	2480	2361	2189
80°	2185	2041	1880
85°	1760	1760	1729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3611 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	3.8
10°-20°	422.8	10.7
20°-30°	620.0	15.7
30°-40°	714.1	18.1
40°-50°	700.7	17.8
50°-60°	596.2	15.1
60°-70°	431.1	10.9
70°-80°	240.9	6.1
80°-90°	67.1	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°	1193.0	30.3
0°-40°	1907.1	48.4
0°-60°	3204.0	81.3
0°-90°	3943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1586	1586	1580	1586	1586	151
15°	1514	1509	1497	1495	1492	427
25°	1373	1362	1344	1334	1329	632
35°	1177	1161	1140	1122	1115	736
45°	949	930	903	886	881	732
55°	706	688	664	645	636	631
65°	466	453	430	414	412	461
75°	238	235	227	214	210	256
85°	57	60	57	56	56	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.8	1593.8	1593.8	1593.8	1593.8
2.5°	1591.7	1591.7	1588.6	1594.8	1595.9
5°	1585.5	1585.5	1580.3	1585.5	1586.5
7.5°	1575.1	1573.0	1566.8	1571.0	1571.0
10°	1558.5	1556.5	1549.2	1550.2	1551.3
12.5°	1537.8	1534.7	1525.3	1524.3	1523.3
15°	1513.9	1508.8	1497.3	1495.3	1492.2
17.5°	1484.9	1477.6	1464.2	1461.1	1459.0
20°	1450.7	1441.3	1427.9	1420.6	1417.5
22.5°	1413.4	1403.0	1386.4	1379.1	1375.0
25°	1372.9	1361.5	1343.9	1333.5	1329.4
27.5°	1328.3	1315.9	1297.2	1283.7	1278.6
30°	1282.7	1267.1	1246.4	1232.9	1227.7
32.5°	1230.9	1214.3	1194.6	1178.0	1170.7
35°	1176.9	1161.4	1139.6	1122.0	1114.7
37.5°	1122.0	1107.5	1081.5	1066.0	1060.8
40°	1066.0	1049.4	1022.4	1003.8	999.6
42.5°	1006.9	992.4	962.3	946.7	939.5
45°	948.8	930.1	903.2	885.5	881.4
47.5°	889.7	869.0	845.1	825.4	820.2
50°	827.5	808.8	780.8	763.2	755.9
52.5°	766.3	749.7	721.7	702.0	696.8
55°	706.2	687.5	663.6	645.0	635.6
57.5°	642.9	628.4	603.5	585.9	578.6
60°	583.8	567.2	543.4	528.8	521.6
62.5°	523.7	507.1	487.4	471.8	465.6
65°	465.6	453.1	430.3	413.7	411.7
67.5°	407.5	397.1	377.4	360.9	361.9
70°	350.5	341.2	324.6	314.2	320.4
72.5°	296.6	291.4	272.7	265.5	268.6
75°	238.5	235.4	227.1	213.6	210.5
77.5°	189.8	191.8	182.5	165.9	161.8
80°	141.0	146.2	131.7	126.5	121.3
82.5°	97.5	104.7	92.3	88.1	86.1
85°	57.0	60.1	57.0	56.0	56.0
87.5°	23.8	28.0	28.0	29.0	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)