

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: P601190

Luminaire Tested: 24D3X-LP-70-L840

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-70-L840
Description: 2x4 D3X-LP AT 7000LM 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

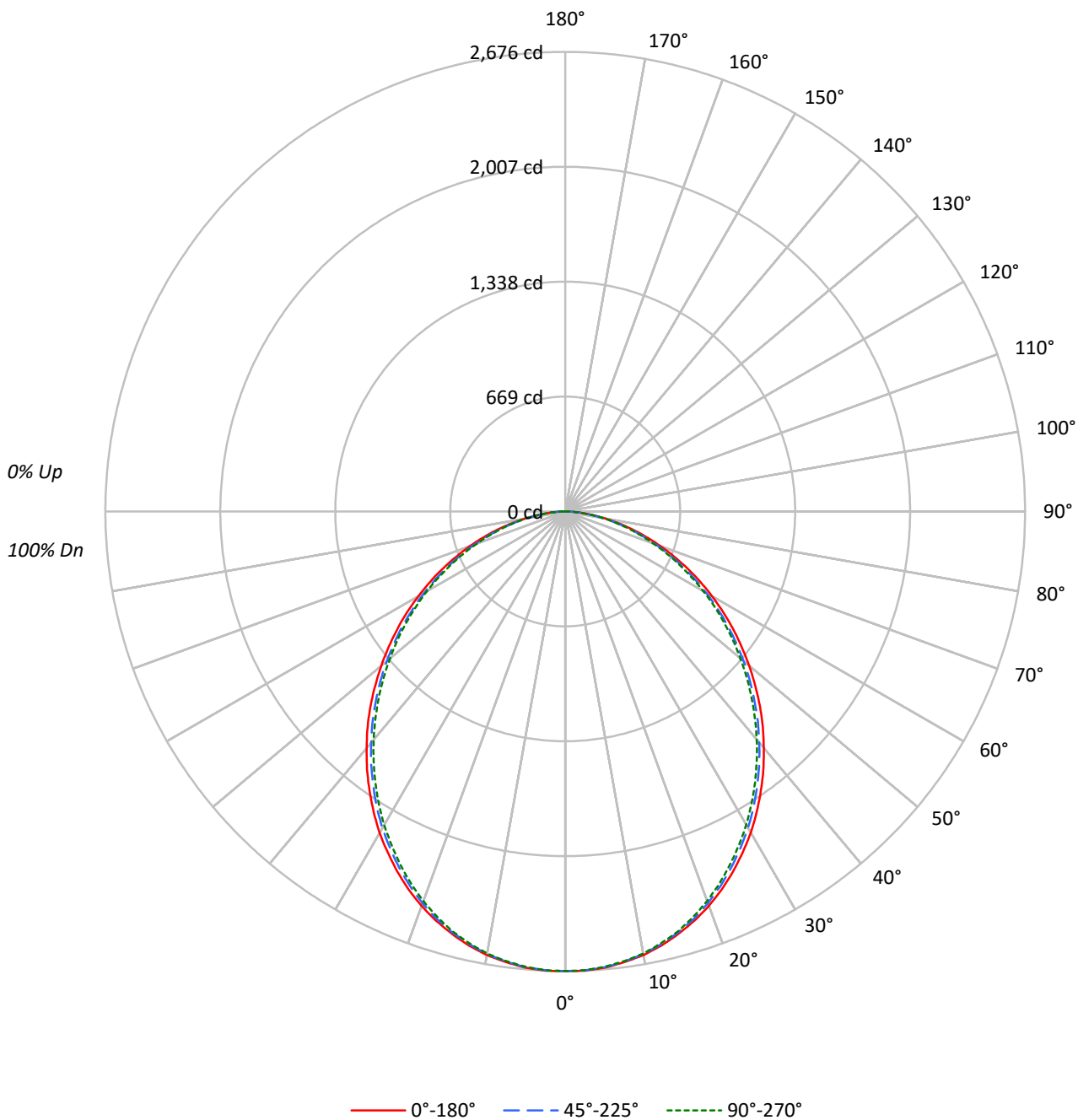
Lumens per Lamp: N/A
Luminaire Lumens: 6747.0 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 51.5
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	78	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	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	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°	3600	3600	3600
5°	3600	3597	3594
10°	3583	3575	3571
15°	3547	3535	3526
20°	3499	3476	3456
25°	3433	3395	3369
30°	3356	3305	3274
35°	3261	3199	3163
40°	3158	3084	3046
45°	3050	2963	2919
50°	2925	2835	2785
55°	2797	2699	2648
60°	2652	2547	2499
65°	2497	2380	2331
70°	2323	2198	2143
75°	2108	1989	1956
80°	1826	1728	1738
85°	1507	1487	1389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3050 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.7	3.7
10°-20°	715.3	10.6
20°-30°	1054.1	15.6
30°-40°	1220.3	18.1
40°-50°	1204.7	17.9
50°-60°	1031.9	15.3
60°-70°	746.0	11.1
70°-80°	411.3	6.1
80°-90°	110.8	1.6
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°	2022.1	30.0
0°-40°	3242.3	48.1
0°-60°	5478.9	81.2
0°-90°	6747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2676	2676	2676	2676	2676	
5°	2666	2664	2663	2661	2661	253
15°	2547	2544	2538	2534	2531	718
25°	2312	2306	2287	2276	2269	1065
35°	1985	1973	1947	1931	1926	1241
45°	1603	1581	1557	1542	1534	1235
55°	1192	1169	1150	1134	1129	1066
65°	784	766	748	736	732	778
75°	405	393	383	381	376	430
85°	98	98	96	90	90	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2675.9	2675.9	2675.9	2675.9	2675.9
2.5°	2675.9	2675.9	2673.3	2673.3	2673.3
5°	2665.7	2664.5	2663.2	2660.7	2660.7
7.5°	2646.7	2646.7	2642.9	2642.9	2640.4
10°	2622.6	2620.1	2616.3	2616.3	2613.8
12.5°	2588.4	2585.9	2580.8	2579.6	2575.8
15°	2546.6	2544.1	2537.8	2534.0	2531.4
17.5°	2498.5	2494.7	2487.1	2480.7	2475.7
20°	2444.0	2438.9	2427.5	2419.9	2413.6
22.5°	2381.9	2376.9	2360.4	2351.5	2345.2
25°	2312.2	2305.9	2286.9	2275.5	2269.2
27.5°	2237.5	2229.9	2208.3	2195.7	2189.3
30°	2160.2	2148.8	2127.3	2112.1	2107.0
32.5°	2074.0	2062.6	2041.1	2023.4	2018.3
35°	1985.4	1972.7	1947.3	1930.9	1925.8
37.5°	1894.1	1877.7	1854.9	1838.4	1830.8
40°	1797.8	1781.4	1756.0	1738.3	1734.5
42.5°	1701.6	1681.3	1659.7	1642.0	1634.4
45°	1602.7	1581.2	1557.1	1541.9	1534.3
47.5°	1498.8	1478.6	1457.0	1439.3	1433.0
50°	1397.5	1375.9	1354.4	1337.9	1330.3
52.5°	1293.6	1272.0	1251.8	1237.8	1230.2
55°	1192.2	1169.4	1150.4	1133.9	1128.9
57.5°	1089.6	1069.3	1047.8	1032.6	1028.8
60°	985.7	968.0	946.4	932.5	928.7
62.5°	885.6	867.9	847.6	833.7	827.3
65°	784.3	766.5	747.5	736.1	732.3
67.5°	685.4	669.0	652.5	641.1	638.6
70°	590.4	573.9	558.7	548.6	544.8
72.5°	495.4	484.0	468.8	462.4	458.6
75°	405.4	392.8	382.6	381.4	376.3
77.5°	318.0	316.7	300.3	297.7	297.7
80°	235.7	231.9	223.0	220.5	224.3
82.5°	162.2	159.6	154.6	153.3	152.0
85°	97.6	97.6	96.3	90.0	90.0
87.5°	44.3	43.1	41.8	43.1	46.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)