

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: P601189

Luminaire Tested: 24D3X-LP-70-L835

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601189
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-L835
Description: 2x4 D3X-LP AT 7000LM 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

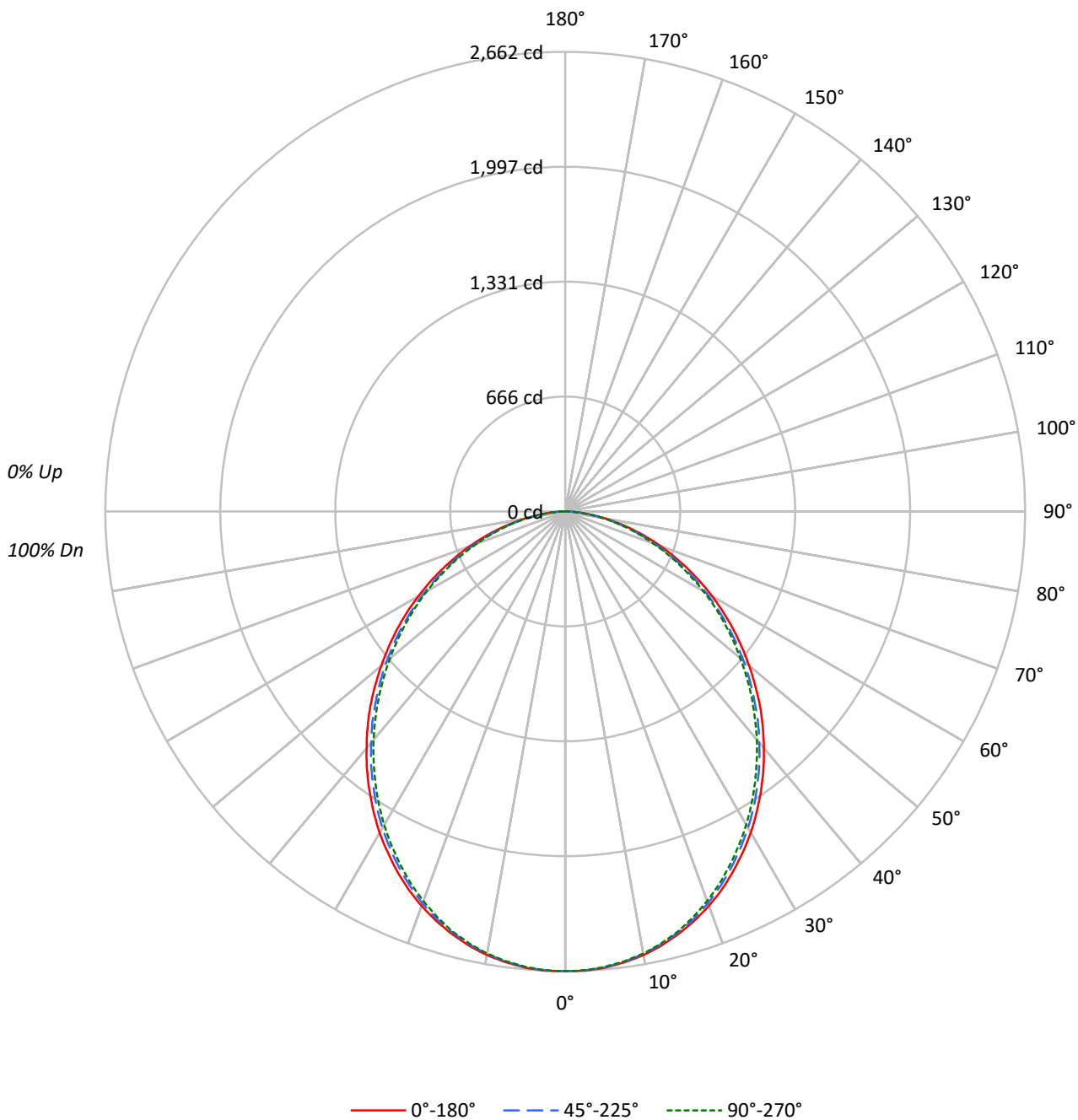
Lumens per Lamp: N/A
Luminaire Lumens: 6713.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	
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	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°	3582	3582	3582
5°	3582	3579	3576
10°	3565	3556	3553
15°	3529	3517	3508
20°	3482	3458	3438
25°	3415	3378	3352
30°	3339	3288	3257
35°	3245	3182	3147
40°	3142	3069	3031
45°	3034	2948	2905
50°	2910	2821	2771
55°	2783	2685	2635
60°	2639	2534	2486
65°	2484	2368	2320
70°	2311	2187	2133
75°	2097	1979	1946
80°	1817	1719	1729
85°	1499	1479	1382

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3034 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.5	3.7
10°-20°	711.6	10.6
20°-30°	1048.8	15.6
30°-40°	1214.1	18.1
40°-50°	1198.6	17.9
50°-60°	1026.7	15.3
60°-70°	742.3	11.1
70°-80°	409.2	6.1
80°-90°	110.2	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°	2011.9	30.0
0°-40°	3226.0	48.1
0°-60°	5451.3	81.2
0°-90°	6713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6713.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2662	2662	2662	2662	2662	
5°	2652	2651	2650	2647	2647	252
15°	2534	2531	2525	2521	2519	714
25°	2301	2294	2275	2264	2258	1059
35°	1975	1963	1938	1921	1916	1235
45°	1595	1573	1549	1534	1527	1229
55°	1186	1164	1145	1128	1123	1060
65°	780	763	744	732	729	774
75°	403	391	381	379	374	428
85°	97	97	96	90	90	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2662.4	2662.4	2662.4	2662.4	2662.4
2.5°	2662.4	2662.4	2659.9	2659.9	2659.9
5°	2652.3	2651.0	2649.8	2647.3	2647.3
7.5°	2633.4	2633.4	2629.6	2629.6	2627.1
10°	2609.4	2606.9	2603.1	2603.1	2600.6
12.5°	2575.4	2572.9	2567.8	2566.6	2562.8
15°	2533.8	2531.3	2525.0	2521.2	2518.7
17.5°	2485.9	2482.1	2474.5	2468.2	2463.2
20°	2431.7	2426.6	2415.3	2407.7	2401.4
22.5°	2369.9	2364.9	2348.5	2339.7	2333.4
25°	2300.6	2294.3	2275.4	2264.0	2257.7
27.5°	2226.2	2218.6	2197.2	2184.6	2178.3
30°	2149.3	2138.0	2116.5	2101.4	2096.4
32.5°	2063.6	2052.3	2030.8	2013.2	2008.1
35°	1975.4	1962.7	1937.5	1921.1	1916.1
37.5°	1884.6	1868.2	1845.5	1829.1	1821.6
40°	1788.8	1772.4	1747.2	1729.5	1725.8
42.5°	1693.0	1672.8	1651.4	1633.7	1626.2
45°	1594.7	1573.2	1549.3	1534.1	1526.6
47.5°	1491.3	1471.1	1449.7	1432.0	1425.7
50°	1390.4	1369.0	1347.6	1331.2	1323.6
52.5°	1287.1	1265.6	1245.5	1231.6	1224.0
55°	1186.2	1163.5	1144.6	1128.2	1123.2
57.5°	1084.1	1063.9	1042.5	1027.4	1023.6
60°	980.7	963.1	941.7	927.8	924.0
62.5°	881.2	863.5	843.3	829.5	823.2
65°	780.3	762.7	743.8	732.4	728.6
67.5°	682.0	665.6	649.2	637.9	635.3
70°	587.4	571.0	555.9	545.8	542.1
72.5°	492.9	481.5	466.4	460.1	456.3
75°	403.4	390.8	380.7	379.4	374.4
77.5°	316.4	315.1	298.8	296.2	296.2
80°	234.5	230.7	221.9	219.3	223.1
82.5°	161.4	158.8	153.8	152.5	151.3
85°	97.1	97.1	95.8	89.5	89.5
87.5°	44.1	42.9	41.6	42.9	46.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)