

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: P601188

Luminaire Tested: 24D3X-LP-70-L830

Issue Date: 10/6/2023

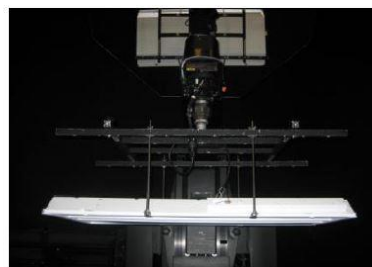
Test Information

Test Method: LM-79-2019
Report Number: P601188
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-L830
Description: 2x4 D3X-LP AT 7000LM 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

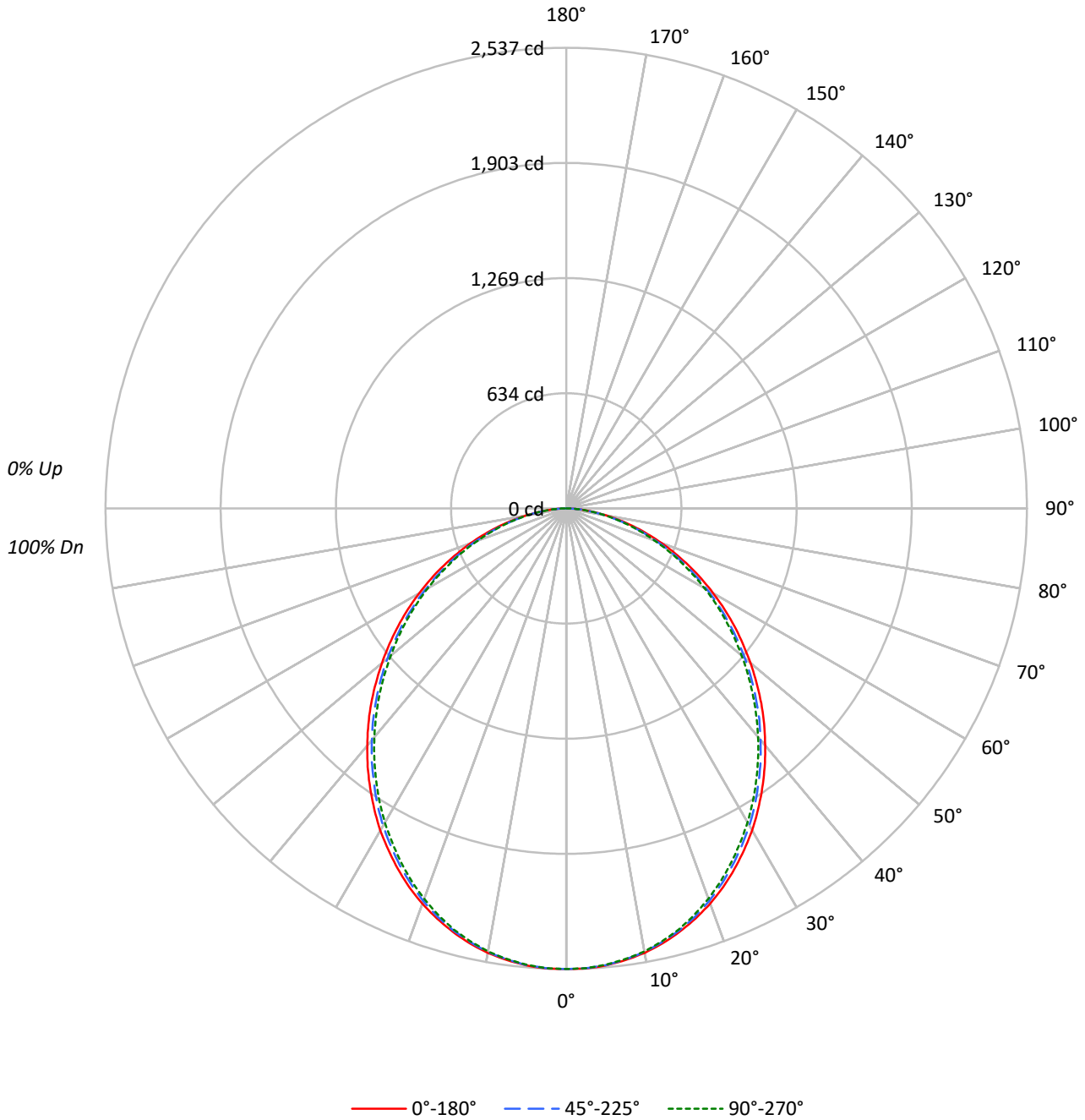
Lumens per Lamp: N/A
Luminaire Lumens: 6396.0 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3413	3413	3413
5°	3413	3410	3407
10°	3397	3389	3385
15°	3363	3351	3343
20°	3317	3295	3276
25°	3254	3218	3193
30°	3182	3133	3103
35°	3091	3032	2999
40°	2993	2924	2888
45°	2891	2809	2768
50°	2773	2687	2640
55°	2651	2558	2510
60°	2514	2414	2369
65°	2367	2256	2210
70°	2202	2084	2032
75°	1998	1886	1854
80°	1731	1638	1647
85°	1428	1409	1317

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2891 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	3.7
10°-20°	678.0	10.6
20°-30°	999.2	15.6
30°-40°	1156.8	18.1
40°-50°	1142.0	17.9
50°-60°	978.2	15.3
60°-70°	707.2	11.1
70°-80°	389.9	6.1
80°-90°	105.0	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°	1916.9	30.0
0°-40°	3073.7	48.1
0°-60°	5193.9	81.2
0°-90°	6396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2537	2537	2537	2537	2537	
5°	2527	2526	2525	2522	2522	240
15°	2414	2412	2406	2402	2400	681
25°	2192	2186	2168	2157	2151	1009
35°	1882	1870	1846	1830	1826	1177
45°	1519	1499	1476	1462	1454	1171
55°	1130	1109	1091	1075	1070	1010
65°	744	727	709	698	694	737
75°	384	372	363	362	357	408
85°	92	92	91	85	85	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2536.7	2536.7	2536.7	2536.7	2536.7
2.5°	2536.7	2536.7	2534.3	2534.3	2534.3
5°	2527.0	2525.8	2524.6	2522.2	2522.2
7.5°	2509.0	2509.0	2505.4	2505.4	2503.0
10°	2486.2	2483.8	2480.2	2480.2	2477.8
12.5°	2453.8	2451.4	2446.6	2445.4	2441.8
15°	2414.1	2411.7	2405.7	2402.1	2399.7
17.5°	2368.5	2364.9	2357.7	2351.7	2346.9
20°	2316.9	2312.1	2301.2	2294.0	2288.0
22.5°	2258.0	2253.2	2237.6	2229.2	2223.2
25°	2191.9	2185.9	2167.9	2157.1	2151.1
27.5°	2121.1	2113.9	2093.5	2081.5	2075.4
30°	2047.8	2037.0	2016.6	2002.2	1997.4
32.5°	1966.1	1955.3	1934.9	1918.1	1913.3
35°	1882.1	1870.1	1846.0	1830.4	1825.6
37.5°	1795.6	1780.0	1758.4	1742.8	1735.5
40°	1704.3	1688.7	1664.7	1647.9	1644.3
42.5°	1613.0	1593.8	1573.4	1556.6	1549.4
45°	1519.4	1498.9	1476.1	1461.7	1454.5
47.5°	1420.9	1401.6	1381.2	1364.4	1358.4
50°	1324.8	1304.4	1283.9	1268.3	1261.1
52.5°	1226.3	1205.9	1186.7	1173.4	1166.2
55°	1130.2	1108.6	1090.6	1075.0	1070.2
57.5°	1032.9	1013.7	993.3	978.9	975.3
60°	934.4	917.6	897.2	884.0	880.4
62.5°	839.5	822.7	803.5	790.3	784.3
65°	743.5	726.6	708.6	697.8	694.2
67.5°	649.8	634.2	618.6	607.7	605.3
70°	559.7	544.1	529.7	520.1	516.5
72.5°	469.6	458.8	444.4	438.4	434.8
75°	384.3	372.3	362.7	361.5	356.7
77.5°	301.5	300.3	284.7	282.3	282.3
80°	223.4	219.8	211.4	209.0	212.6
82.5°	153.7	151.3	146.5	145.3	144.1
85°	92.5	92.5	91.3	85.3	85.3
87.5°	42.0	40.8	39.6	40.8	44.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)