

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: P601205

Luminaire Tested: 24D3X-LP-90-L940

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601205
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-90-L940
Description: 2x4 D3X-LP AT 9000LM 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

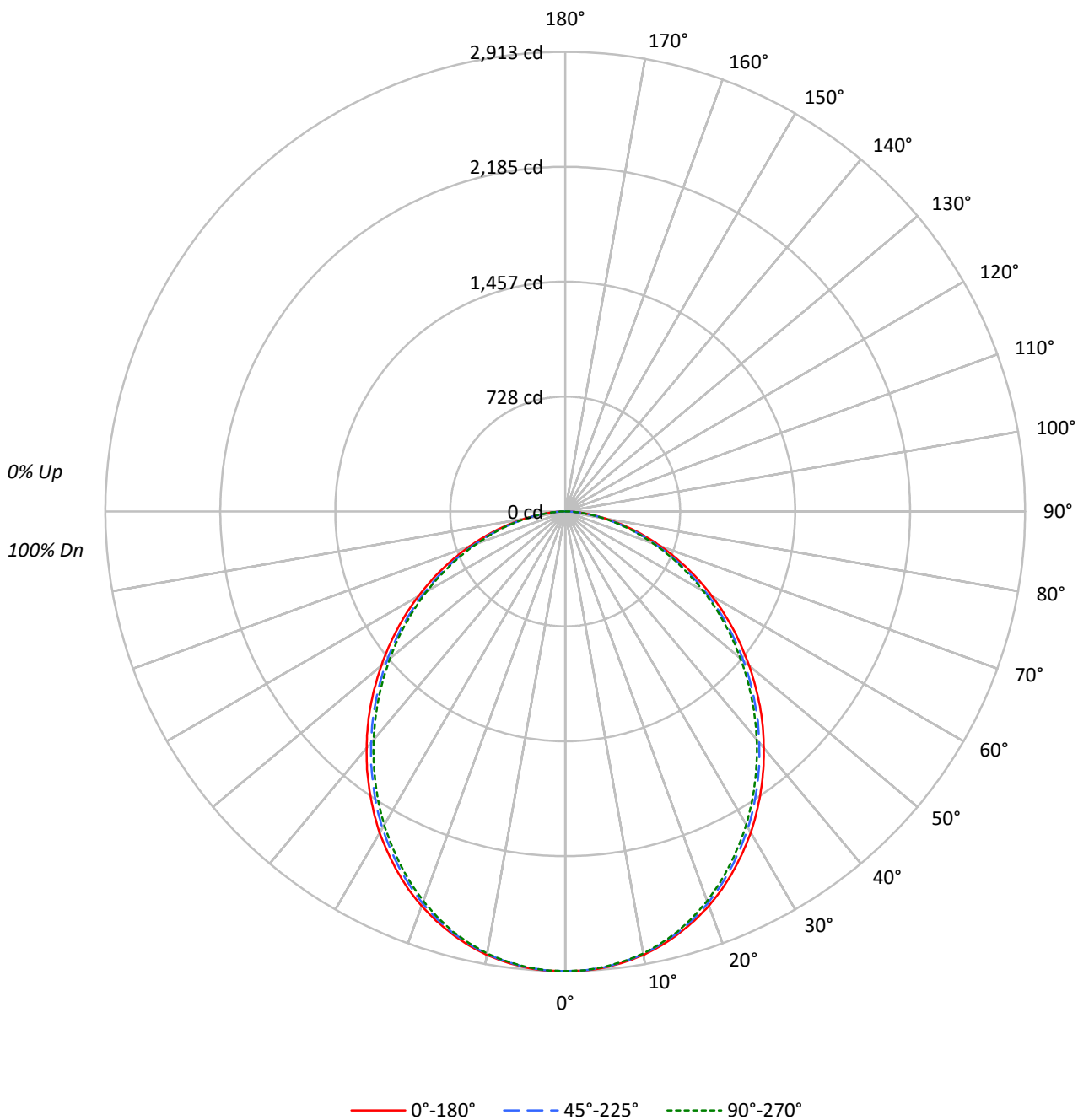
Lumens per Lamp: N/A
Luminaire Lumens: 7344.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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°	3919	3919	3919
5°	3919	3915	3912
10°	3900	3891	3887
15°	3861	3848	3838
20°	3809	3783	3762
25°	3736	3696	3667
30°	3653	3597	3563
35°	3550	3482	3443
40°	3437	3357	3316
45°	3319	3225	3178
50°	3184	3086	3031
55°	3044	2937	2883
60°	2887	2772	2720
65°	2718	2591	2538
70°	2528	2393	2333
75°	2294	2165	2129
80°	1987	1881	1891
85°	1639	1618	1511

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3319 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.1	3.7
10°-20°	778.5	10.6
20°-30°	1147.3	15.6
30°-40°	1328.2	18.1
40°-50°	1311.3	17.9
50°-60°	1123.2	15.3
60°-70°	812.1	11.1
70°-80°	447.7	6.1
80°-90°	120.5	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°	2201.0	30.0
0°-40°	3529.2	48.1
0°-60°	5963.7	81.2
0°-90°	7344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2913	2913	2913	2913	2913	
5°	2902	2900	2899	2896	2896	275
15°	2772	2769	2762	2758	2755	781
25°	2517	2510	2489	2477	2470	1159
35°	2161	2147	2120	2102	2096	1351
45°	1744	1721	1695	1678	1670	1344
55°	1298	1273	1252	1234	1229	1160
65°	854	834	814	801	797	846
75°	441	428	416	415	410	468
85°	106	106	105	98	98	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2912.6	2912.6	2912.6	2912.6	2912.6
2.5°	2912.6	2912.6	2909.9	2909.9	2909.9
5°	2901.6	2900.2	2898.8	2896.1	2896.1
7.5°	2880.9	2880.9	2876.8	2876.8	2874.0
10°	2854.7	2852.0	2847.8	2847.8	2845.1
12.5°	2817.5	2814.7	2809.2	2807.8	2803.7
15°	2772.0	2769.2	2762.3	2758.2	2755.4
17.5°	2719.6	2715.4	2707.1	2700.3	2694.7
20°	2660.3	2654.7	2642.3	2634.1	2627.2
22.5°	2592.7	2587.2	2569.2	2559.6	2552.7
25°	2516.8	2509.9	2489.3	2476.8	2469.9
27.5°	2435.5	2427.2	2403.8	2390.0	2383.1
30°	2351.3	2338.9	2315.5	2298.9	2293.4
32.5°	2257.6	2245.2	2221.7	2202.4	2196.9
35°	2161.0	2147.2	2119.7	2101.7	2096.2
37.5°	2061.7	2043.8	2019.0	2001.1	1992.8
40°	1956.9	1939.0	1911.4	1892.1	1888.0
42.5°	1852.1	1830.0	1806.6	1787.3	1779.0
45°	1744.5	1721.1	1694.9	1678.3	1670.1
47.5°	1631.5	1609.4	1586.0	1566.6	1559.7
50°	1521.1	1497.7	1474.2	1456.3	1448.0
52.5°	1408.0	1384.6	1362.5	1347.4	1339.1
55°	1297.7	1272.9	1252.2	1234.3	1228.8
57.5°	1186.0	1164.0	1140.5	1124.0	1119.8
60°	1072.9	1053.6	1030.2	1015.0	1010.9
62.5°	964.0	944.7	922.6	907.4	900.5
65°	853.7	834.3	813.7	801.3	797.1
67.5°	746.1	728.2	710.2	697.8	695.1
70°	642.7	624.7	608.2	597.1	593.0
72.5°	539.2	526.8	510.3	503.4	499.2
75°	441.3	427.5	416.5	415.1	409.6
77.5°	346.2	344.8	326.8	324.1	324.1
80°	256.5	252.4	242.7	240.0	244.1
82.5°	176.5	173.8	168.2	166.9	165.5
85°	106.2	106.2	104.8	97.9	97.9
87.5°	48.3	46.9	45.5	46.9	51.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)