

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: P#

Luminaire Tested: 24D3X-LP-80-L850.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 12/21/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-80-L850.ies
Description: 2x4 D3X-LP AT 8000LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

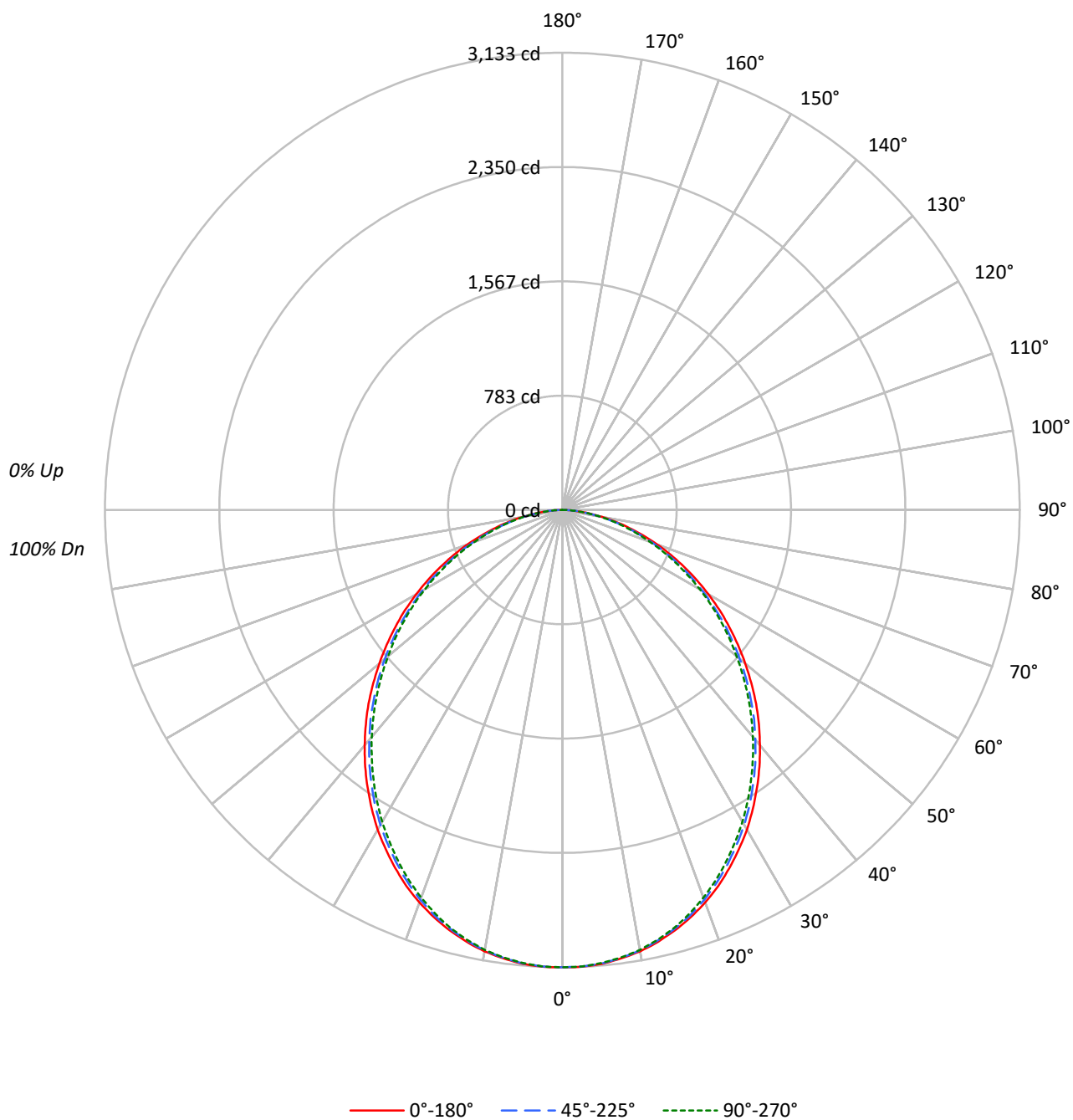
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7900.7 lumens
Efficiency: N/A
Efficacy: 129.1 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): 61.2
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	100	97	106	102	99	95	98	95	92		94	92	89		91
2	100	92	85	79	97	90	84	78	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52
7	66	53	44	38	64	52	44	38	51	43	38		49	42	38		48
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		41
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4216	4216	4216
5°	4216	4212	4208
10°	4196	4186	4182
15°	4154	4139	4129
20°	4098	4070	4047
25°	4020	3976	3945
30°	3930	3870	3833
35°	3819	3745	3704
40°	3698	3612	3567
45°	3571	3470	3419
50°	3425	3320	3261
55°	3275	3160	3101
60°	3106	2982	2926
65°	2924	2787	2730
70°	2720	2574	2510
75°	2468	2329	2290
80°	2139	2023	2035
85°	1763	1741	1626

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3571 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.0	3.7
10°-20°	837.6	10.6
20°-30°	1234.3	15.6
30°-40°	1428.9	18.1
40°-50°	1410.7	17.9
50°-60°	1208.3	15.3
60°-70°	873.6	11.1
70°-80°	481.6	6.1
80°-90°	129.7	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°	2367.9	30.0
0°-40°	3796.8	48.1
0°-60°	6415.8	81.2
0°-90°	7900.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7900.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3133	3133	3133	3133	3133	
5°	3122	3120	3119	3116	3116	296
15°	2982	2979	2972	2967	2964	841
25°	2708	2700	2678	2665	2657	1247
35°	2325	2310	2280	2261	2255	1454
45°	1877	1852	1823	1806	1797	1446
55°	1396	1369	1347	1328	1322	1248
65°	918	898	875	862	858	911
75°	475	460	448	447	441	504
85°	114	114	113	105	105	134
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3133.4	3133.4	3133.4	3133.4	3133.4
2.5°	3133.4	3133.4	3130.5	3130.5	3130.5
5°	3121.6	3120.1	3118.6	3115.6	3115.6
7.5°	3099.3	3099.3	3094.9	3094.9	3091.9
10°	3071.1	3068.1	3063.7	3063.7	3060.7
12.5°	3031.1	3028.1	3022.2	3020.7	3016.2
15°	2982.1	2979.1	2971.7	2967.3	2964.3
17.5°	2925.7	2921.3	2912.4	2904.9	2899.0
20°	2861.9	2856.0	2842.6	2833.7	2826.3
22.5°	2789.2	2783.3	2764.0	2753.6	2746.2
25°	2707.6	2700.2	2678.0	2664.6	2657.2
27.5°	2620.1	2611.2	2586.0	2571.1	2563.7
30°	2529.6	2516.2	2491.0	2473.2	2467.3
32.5°	2428.7	2415.3	2390.1	2369.4	2363.4
35°	2324.8	2310.0	2280.3	2261.1	2255.1
37.5°	2218.0	2198.7	2172.0	2152.7	2143.8
40°	2105.3	2086.0	2056.3	2035.5	2031.1
42.5°	1992.5	1968.8	1943.6	1922.8	1913.9
45°	1876.8	1851.6	1823.4	1805.6	1796.7
47.5°	1755.1	1731.4	1706.2	1685.4	1678.0
50°	1636.4	1611.2	1586.0	1566.7	1557.8
52.5°	1514.8	1489.6	1465.8	1449.5	1440.6
55°	1396.1	1369.4	1347.1	1327.8	1321.9
57.5°	1275.9	1252.2	1227.0	1209.2	1204.7
60°	1154.3	1133.5	1108.3	1092.0	1087.5
62.5°	1037.1	1016.3	992.5	976.2	968.8
65°	918.4	897.6	875.3	862.0	857.5
67.5°	802.6	783.4	764.1	750.7	747.7
70°	691.4	672.1	654.3	642.4	638.0
72.5°	580.1	566.7	548.9	541.5	537.1
75°	474.8	459.9	448.1	446.6	440.6
77.5°	372.4	370.9	351.6	348.7	348.7
80°	276.0	271.5	261.1	258.2	262.6
82.5°	189.9	186.9	181.0	179.5	178.0
85°	114.2	114.2	112.8	105.3	105.3
87.5°	51.9	50.4	49.0	50.4	54.9
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.1	17.7	16.4	18.0	18.3	15.8	17.4	16.2	17.7	18.0
	3H	17.7	19.2	18.1	19.5	19.9	17.4	18.9	17.8	19.2	19.6
	4H	18.4	19.7	18.8	20.1	20.4	18.0	19.4	18.4	19.7	20.1
	6H	18.8	20.1	19.2	20.4	20.8	18.5	19.7	18.9	20.1	20.5
	8H	18.9	20.1	19.4	20.5	20.9	18.6	19.8	19.0	20.2	20.6
	12H	19.0	20.2	19.5	20.6	21.0	18.7	19.8	19.1	20.2	20.6
4H	2H	16.6	18.0	17.0	18.3	18.7	16.4	17.8	16.8	18.1	18.5
	3H	18.5	19.6	18.9	20.0	20.4	18.2	19.4	18.6	19.8	20.2
	4H	19.3	20.3	19.7	20.7	21.1	19.0	20.0	19.4	20.4	20.8
	6H	19.8	20.7	20.3	21.2	21.6	19.5	20.4	20.0	20.8	21.3
	8H	20.0	20.8	20.5	21.3	21.7	19.7	20.5	20.1	21.0	21.4
	12H	20.1	20.9	20.6	21.4	21.8	19.8	20.6	20.3	21.0	21.5
8H	4H	19.5	20.3	20.0	20.8	21.3	19.3	20.1	19.7	20.5	21.0
	6H	20.2	20.9	20.7	21.4	21.8	19.9	20.6	20.4	21.1	21.6
	8H	20.4	21.1	20.9	21.6	22.1	20.2	20.8	20.7	21.3	21.8
	12H	20.6	21.2	21.1	21.7	22.2	20.3	20.9	20.8	21.4	21.9
12H	4H	19.5	20.3	20.0	20.8	21.2	19.3	20.0	19.8	20.5	21.0
	6H	20.2	20.9	20.8	21.3	21.9	20.0	20.6	20.5	21.1	21.6
	8H	20.5	21.1	21.0	21.6	22.1	20.3	20.8	20.8	21.3	21.9

(END OF REPORT)