

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: P601093

Luminaire Tested: 22D3X-LP-30-L835

Issue Date: 10/5/2023

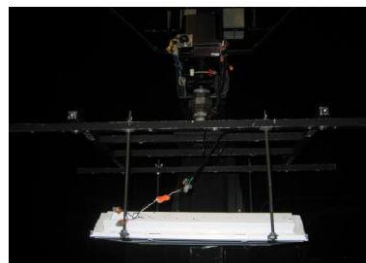
Test Information

Test Method: LM-79-2019
Report Number: P601093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-30-L835
Description: 2x2 D3X-LP AT 3000LM 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

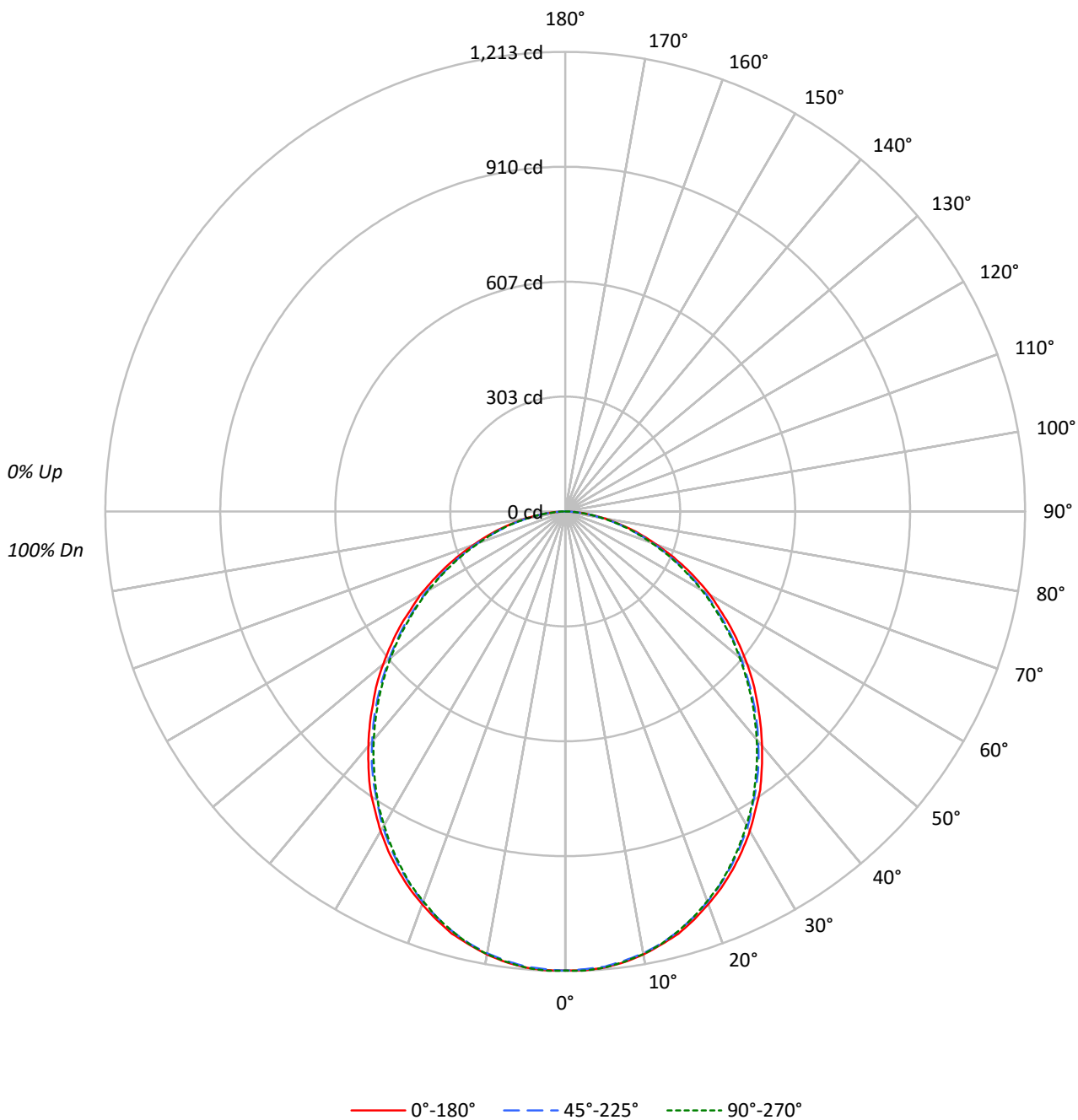
Lumens per Lamp: N/A
Luminaire Lumens: 3028.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.6
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	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°	3261	3261	3261
5°	3263	3257	3263
10°	3245	3235	3242
15°	3214	3198	3198
20°	3159	3142	3135
25°	3100	3071	3060
30°	3026	2989	2970
35°	2946	2890	2871
40°	2836	2781	2760
45°	2728	2664	2641
50°	2622	2537	2516
55°	2503	2412	2378
60°	2377	2273	2241
65°	2213	2106	2083
70°	2023	1947	1899
75°	1844	1732	1745
80°	1590	1497	1516
85°	1229	1192	1118

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2728 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	3.8
10°-20°	323.6	10.7
20°-30°	476.7	15.7
30°-40°	551.4	18.2
40°-50°	542.1	17.9
50°-60°	462.0	15.3
60°-70°	331.0	10.9
70°-80°	179.8	5.9
80°-90°	46.9	1.5
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°	914.8	30.2
0°-40°	1466.2	48.4
0°-60°	2470.3	81.6
0°-90°	3028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1208	1206	1206	1206	1208	115
15°	1154	1149	1148	1147	1148	325
25°	1044	1039	1034	1032	1031	481
35°	897	890	880	875	874	559
45°	717	712	700	694	694	554
55°	534	524	514	508	507	476
65°	348	340	331	327	327	344
75°	177	171	167	164	168	187
85°	40	40	39	37	36	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1211.7	1211.7	1211.7	1211.7	1211.7
2.5°	1211.7	1210.5	1209.3	1210.5	1212.9
5°	1208.1	1205.7	1205.7	1205.7	1208.1
7.5°	1199.7	1197.2	1196.0	1197.2	1198.5
10°	1187.6	1185.2	1184.0	1185.2	1186.4
12.5°	1170.7	1169.5	1168.3	1168.3	1169.5
15°	1153.8	1149.0	1147.8	1146.6	1147.8
17.5°	1129.7	1128.5	1123.6	1123.6	1123.6
20°	1103.1	1100.7	1097.1	1094.7	1094.7
22.5°	1075.4	1072.9	1066.9	1064.5	1065.7
25°	1044.0	1039.1	1034.3	1031.9	1030.7
27.5°	1010.2	1005.3	998.1	994.5	994.5
30°	974.0	970.3	961.9	957.1	955.9
32.5°	934.1	931.7	919.7	917.2	917.2
35°	896.7	889.5	879.8	875.0	873.8
37.5°	852.1	847.2	837.6	831.6	830.3
40°	807.4	801.4	791.7	786.9	785.7
42.5°	762.8	756.7	747.1	741.0	739.8
45°	716.9	712.1	700.0	694.0	694.0
47.5°	673.5	663.8	652.9	648.1	646.9
50°	626.4	617.9	605.9	601.0	601.0
52.5°	579.3	573.3	560.0	557.6	555.2
55°	533.5	523.8	514.1	508.1	506.9
57.5°	484.0	475.5	465.9	461.0	461.0
60°	441.7	430.9	422.4	416.4	416.4
62.5°	393.5	383.8	375.3	371.7	370.5
65°	347.6	340.3	330.7	327.1	327.1
67.5°	301.7	295.7	287.2	283.6	284.8
70°	257.1	253.4	247.4	242.6	241.4
72.5°	216.0	211.2	205.2	204.0	204.0
75°	177.4	171.4	166.6	164.1	167.8
77.5°	137.6	134.0	131.6	130.3	131.6
80°	102.6	97.8	96.6	97.8	97.8
82.5°	71.2	68.8	67.6	67.6	67.6
85°	39.8	39.8	38.6	37.4	36.2
87.5°	15.7	15.7	16.9	16.9	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)