

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: P601086

Luminaire Tested: 22D3X-LP-25-L830

Issue Date: 10/5/2023

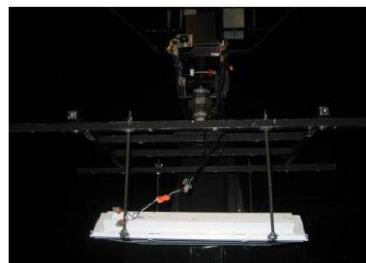
Test Information

Test Method: LM-79-2019
Report Number: P601086
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-25-L830
Description: 2x2 D3X-LP AT 2500LM 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

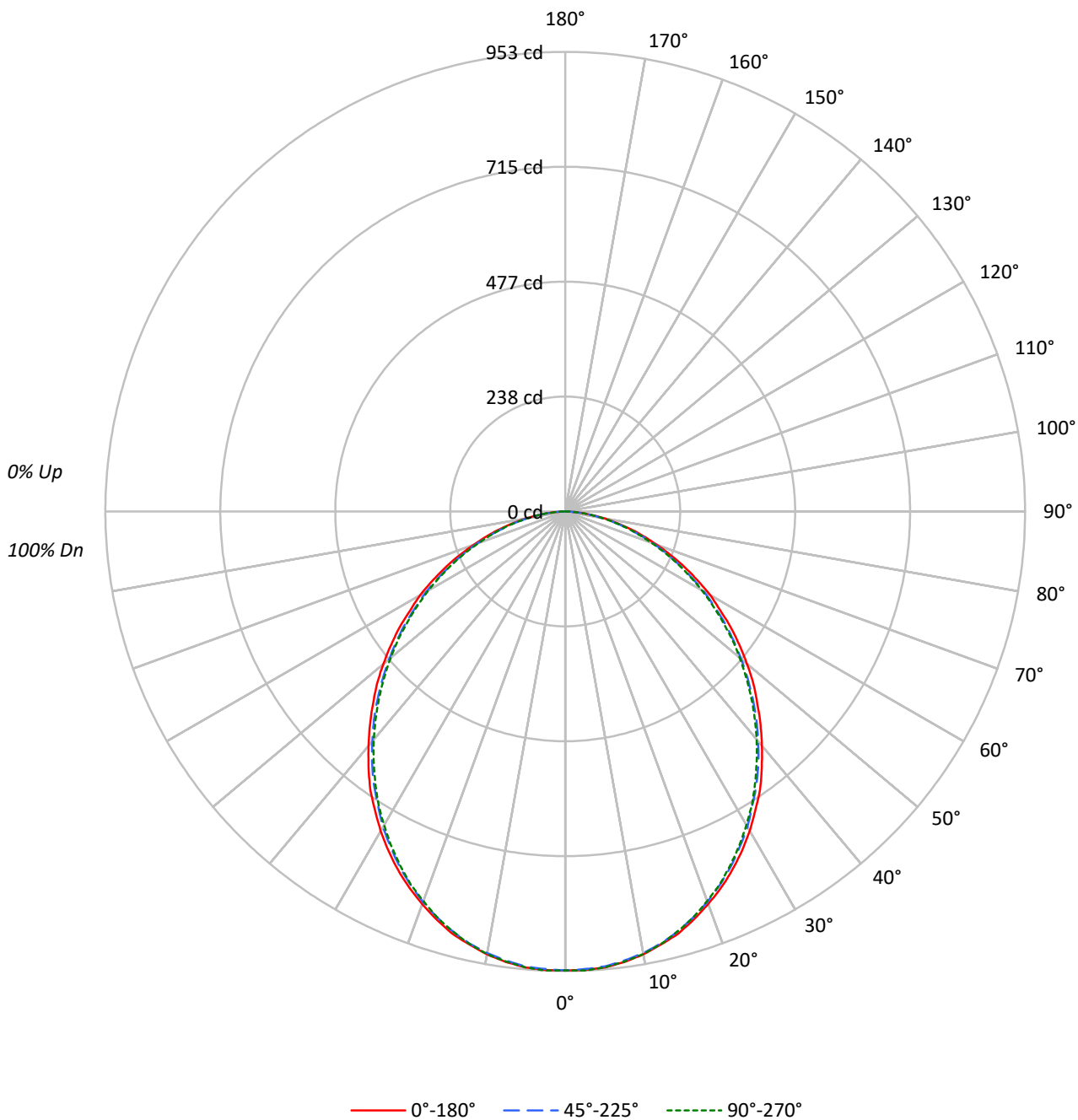
Lumens per Lamp: N/A
Luminaire Lumens: 2378.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 19.9
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°	2561	2561	2561
5°	2563	2558	2563
10°	2549	2541	2546
15°	2524	2511	2511
20°	2481	2467	2462
25°	2434	2412	2403
30°	2377	2347	2333
35°	2313	2270	2254
40°	2227	2184	2167
45°	2143	2092	2074
50°	2059	1992	1976
55°	1965	1894	1868
60°	1867	1785	1760
65°	1738	1654	1636
70°	1589	1529	1492
75°	1448	1360	1369
80°	1249	1175	1190
85°	966	936	877

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2143 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	3.8
10°-20°	254.2	10.7
20°-30°	374.3	15.7
30°-40°	433.0	18.2
40°-50°	425.7	17.9
50°-60°	362.8	15.3
60°-70°	260.0	10.9
70°-80°	141.2	5.9
80°-90°	36.8	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°	718.4	30.2
0°-40°	1151.5	48.4
0°-60°	1940.0	81.6
0°-90°	2378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2378.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	949	947	947	947	949	90
15°	906	902	901	900	901	255
25°	820	816	812	810	809	377
35°	704	698	691	687	686	439
45°	563	559	550	545	545	435
55°	419	411	404	399	398	374
65°	273	267	260	257	257	270
75°	139	135	131	129	132	147
85°	31	31	30	29	28	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	951.6	951.6	951.6	951.6	951.6
2.5°	951.6	950.7	949.7	950.7	952.6
5°	948.8	946.9	946.9	946.9	948.8
7.5°	942.1	940.2	939.3	940.2	941.2
10°	932.7	930.8	929.8	930.8	931.7
12.5°	919.4	918.4	917.5	917.5	918.4
15°	906.1	902.3	901.4	900.4	901.4
17.5°	887.2	886.2	882.4	882.4	882.4
20°	866.3	864.4	861.6	859.7	859.7
22.5°	844.5	842.6	837.9	836.0	836.9
25°	819.9	816.1	812.3	810.4	809.4
27.5°	793.3	789.5	783.9	781.0	781.0
30°	764.9	762.1	755.4	751.6	750.7
32.5°	733.6	731.7	722.2	720.3	720.3
35°	704.2	698.5	691.0	687.2	686.2
37.5°	669.2	665.4	657.8	653.1	652.1
40°	634.1	629.4	621.8	618.0	617.0
42.5°	599.0	594.3	586.7	582.0	581.0
45°	563.0	559.2	549.7	545.0	545.0
47.5°	528.9	521.3	512.8	509.0	508.0
50°	491.9	485.3	475.8	472.0	472.0
52.5°	455.0	450.2	439.8	437.9	436.0
55°	418.9	411.4	403.8	399.0	398.1
57.5°	380.1	373.4	365.9	362.1	362.1
60°	346.9	338.4	331.7	327.0	327.0
62.5°	309.0	301.4	294.8	291.9	291.0
65°	273.0	267.3	259.7	256.9	256.9
67.5°	237.0	232.2	225.6	222.7	223.7
70°	201.9	199.0	194.3	190.5	189.6
72.5°	169.7	165.9	161.1	160.2	160.2
75°	139.3	134.6	130.8	128.9	131.7
77.5°	108.1	105.2	103.3	102.4	103.3
80°	80.6	76.8	75.8	76.8	76.8
82.5°	55.9	54.0	53.1	53.1	53.1
85°	31.3	31.3	30.3	29.4	28.4
87.5°	12.3	12.3	13.3	13.3	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)