

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P257553

Luminaire Tested: **D3X-WO-23L840-LD5-UNV-14-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-23L840-LD5-UNV-14-T1-STD
Description: CORELITE D3X 1X4 LED LUMINAIRE
Light Source: (112) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2457.4 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

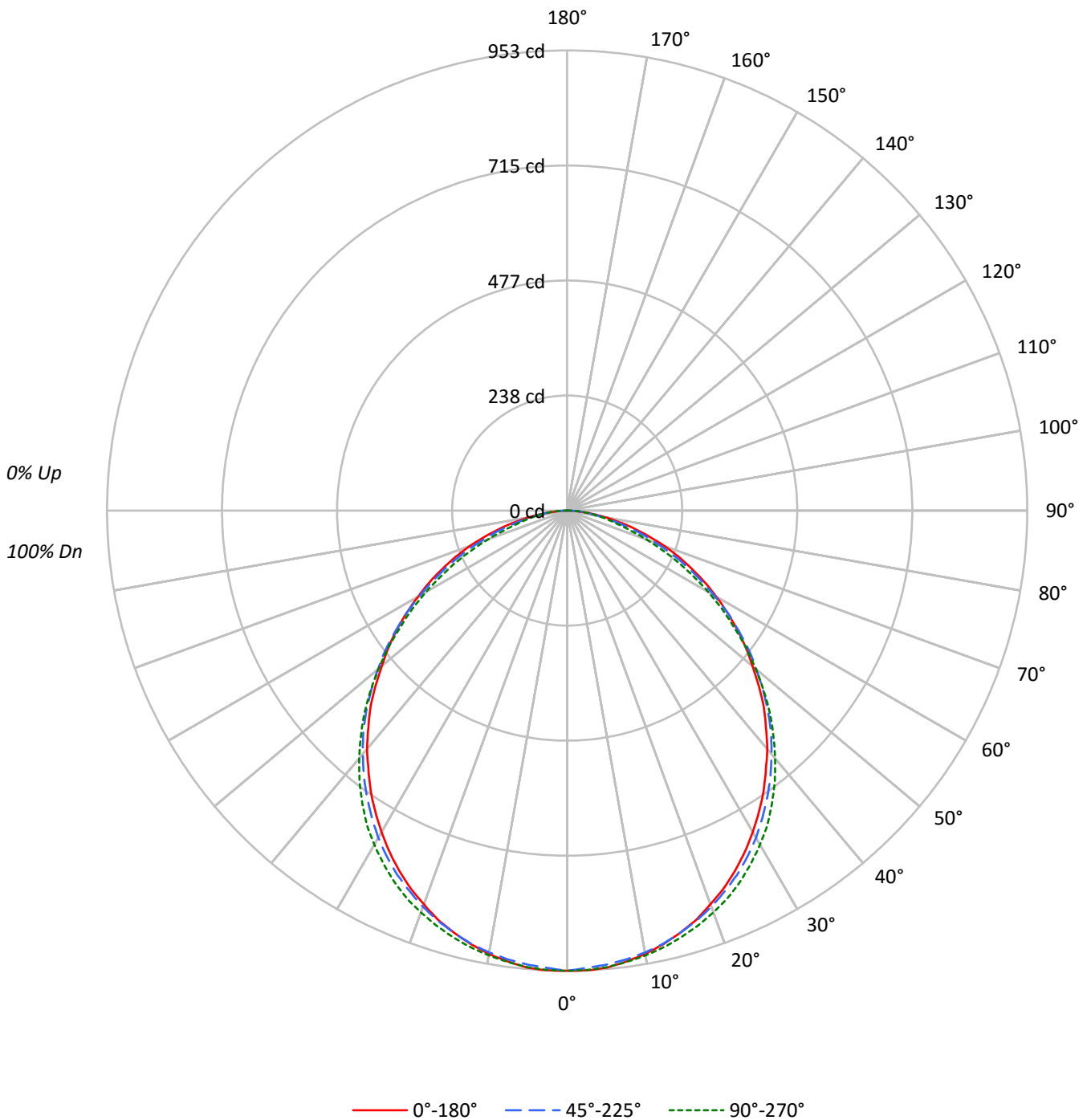
Input Watts (W): 22.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	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	63	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	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	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°	2565	2565	2565
5°	2566	2549	2563
10°	2548	2539	2556
15°	2522	2522	2548
20°	2485	2500	2536
25°	2443	2471	2518
30°	2389	2431	2483
35°	2330	2375	2430
40°	2265	2312	2353
45°	2192	2240	2260
50°	2097	2141	2133
55°	2018	2033	1979
60°	1918	1889	1816
65°	1811	1738	1619
70°	1680	1541	1369
75°	1495	1321	1126
80°	1243	1082	1049
85°	902	966	966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	3.7
10°-20°	256.2	10.4
20°-30°	384.0	15.6
30°-40°	452.4	18.4
40°-50°	451.3	18.4
50°-60°	383.8	15.6
60°-70°	267.9	10.9
70°-80°	136.2	5.5
80°-90°	35.6	1.4
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°	730.2	29.7
0°-40°	1182.6	48.1
0°-60°	2017.8	82.1
0°-90°	2457.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2457.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	950	948	944	949	949	90
15°	905	905	905	914	915	255
25°	823	824	832	845	848	379
35°	709	710	723	738	740	443
45°	576	578	588	593	594	443
55°	430	430	433	427	422	384
65°	284	280	273	258	254	282
75°	144	138	127	112	108	153
85°	29	30	31	31	31	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	953.1	953.1	953.1	953.1	953.1
2.5°	953.1	952.1	947.9	952.1	952.1
5°	950.0	947.9	943.8	949.0	949.0
7.5°	941.7	940.6	937.5	942.7	942.7
10°	932.3	931.3	929.2	935.4	935.4
12.5°	919.8	919.8	918.8	925.0	926.1
15°	905.2	905.2	905.2	913.6	914.6
17.5°	888.6	887.5	890.6	900.0	901.1
20°	867.7	868.8	872.9	883.3	885.4
22.5°	846.9	847.9	853.1	865.6	868.8
25°	822.9	824.0	832.3	844.8	847.9
27.5°	796.9	799.0	808.3	821.9	824.0
30°	768.8	770.8	782.3	795.8	799.0
32.5°	739.6	742.7	753.1	767.7	771.9
35°	709.4	710.4	722.9	737.5	739.6
37.5°	676.0	679.2	691.7	704.2	706.3
40°	644.8	646.9	658.3	668.8	669.8
42.5°	609.4	612.5	625.0	632.3	632.3
45°	576.0	578.1	588.5	592.7	593.8
47.5°	538.5	540.6	550.0	552.1	552.1
50°	501.0	506.3	511.5	511.5	509.4
52.5°	466.7	467.7	474.0	469.8	467.7
55°	430.2	430.2	433.3	427.1	421.9
57.5°	393.8	393.8	393.8	385.4	381.3
60°	356.3	355.2	351.0	340.6	337.5
62.5°	320.8	317.7	311.5	301.0	294.8
65°	284.4	280.2	272.9	258.3	254.2
67.5°	250.0	242.7	234.4	220.8	213.5
70°	213.5	207.3	195.8	180.2	174.0
72.5°	178.1	171.9	162.5	146.9	137.5
75°	143.8	138.5	127.1	111.5	108.3
77.5°	110.4	107.3	95.8	88.5	87.5
80°	80.2	79.2	69.8	67.7	67.7
82.5°	53.1	52.1	49.0	49.0	47.9
85°	29.2	30.2	31.3	31.3	31.3
87.5°	10.4	12.5	14.6	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)