

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: P257271

Luminaire Tested: **D3X-WD-20L835-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257271  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-20L835-LD5-UNV-22-T1-STD  
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH ROUND PERF  
Light Source: (126) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1904.3 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

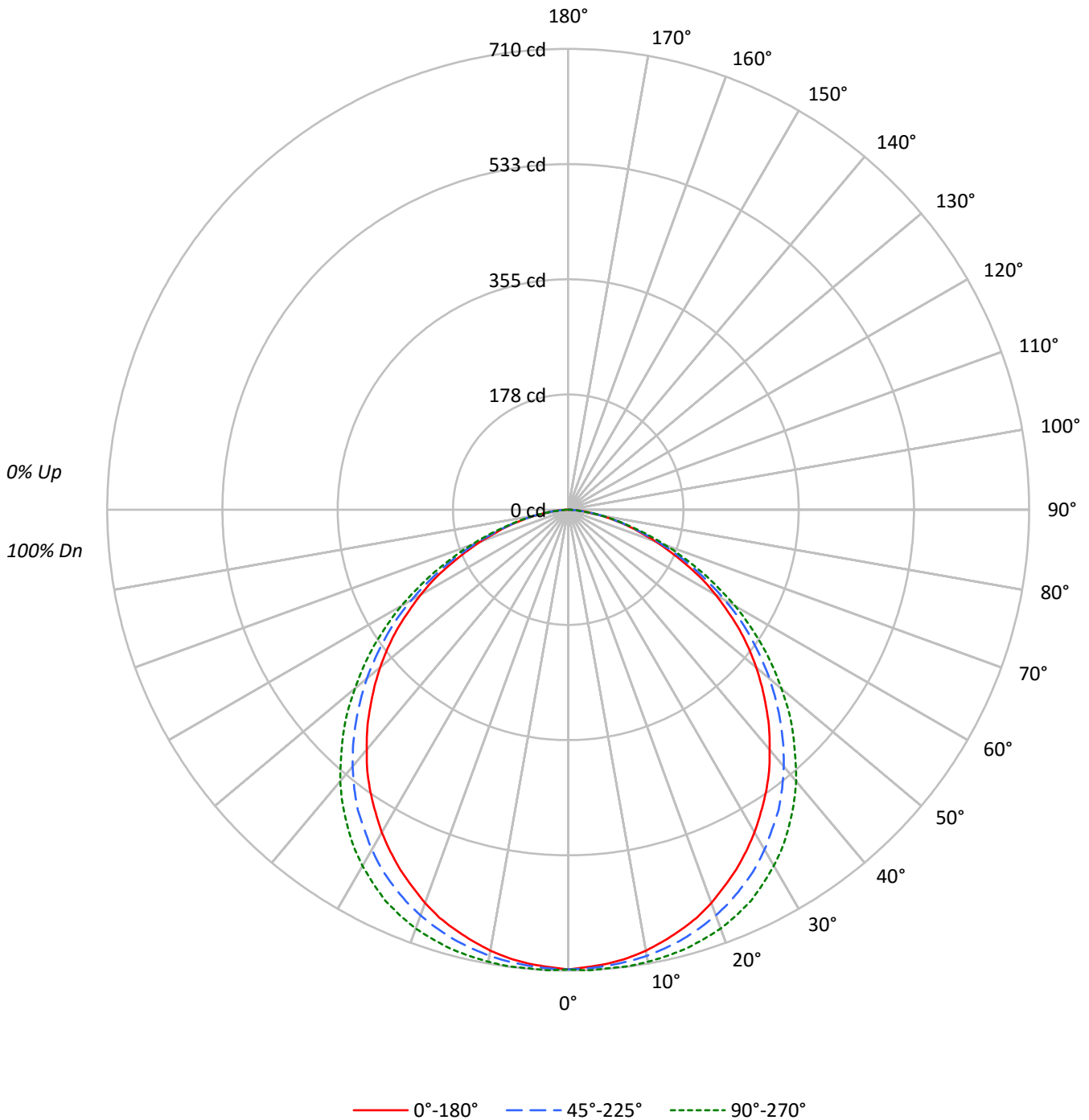
Input Watts (W): 16.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	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	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1906	1906	1906
5°	1897	1905	1916
10°	1885	1907	1933
15°	1868	1908	1950
20°	1846	1905	1967
25°	1817	1896	1975
30°	1784	1879	1968
35°	1744	1855	1950
40°	1696	1815	1919
45°	1642	1759	1865
50°	1583	1695	1794
55°	1510	1611	1712
60°	1412	1500	1600
65°	1279	1358	1442
70°	1129	1186	1250
75°	970	991	1033
80°	778	795	810
85°	571	506	506



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.1	3.5
10°-20°	193.4	10.2
20°-30°	294.1	15.4
30°-40°	351.9	18.5
40°-50°	355.7	18.7
50°-60°	306.1	16.1
60°-70°	211.3	11.1
70°-80°	102.5	5.4
80°-90°	22.2	1.2
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°	554.6	29.1
0°-40°	906.4	47.6
0°-60°	1568.3	82.4
0°-90°	1904.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1904.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	702	703	705	708	709	67
15°	670	674	685	695	700	189
25°	612	619	639	658	665	282
35°	531	540	565	585	594	332
45°	432	440	462	482	490	333
55°	322	327	343	359	365	287
65°	201	204	213	222	226	200
75°	93	91	95	98	99	99
85°	18	18	16	16	16	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	708.3	708.3	708.3	708.3	708.3
2.5°	705.2	705.2	707.3	709.3	710.3
5°	702.1	703.2	705.2	708.3	709.3
7.5°	697.0	698.0	702.1	707.3	709.3
10°	689.8	691.9	698.0	704.2	707.3
12.5°	680.6	684.7	691.9	700.1	704.2
15°	670.4	674.5	684.7	695.0	700.1
17.5°	659.1	663.2	675.5	688.8	693.9
20°	644.7	650.9	665.2	680.6	686.8
22.5°	628.3	636.5	652.9	669.3	676.5
25°	611.9	619.1	638.6	658.1	665.2
27.5°	593.5	601.7	623.2	642.7	649.9
30°	574.0	582.2	604.8	626.3	633.5
32.5°	552.5	562.7	584.3	606.8	615.0
35°	531.0	540.2	564.8	585.3	593.5
37.5°	508.4	516.6	541.2	562.7	570.9
40°	482.8	492.0	516.6	538.1	546.3
42.5°	458.2	467.4	490.0	510.5	517.6
45°	431.5	439.7	462.3	481.8	490.0
47.5°	404.9	414.1	433.6	453.1	461.3
50°	378.2	385.4	404.9	423.3	428.5
52.5°	350.6	356.7	374.1	390.5	397.7
55°	321.9	327.0	343.4	358.8	364.9
57.5°	291.1	297.3	312.6	323.9	331.1
60°	262.4	265.5	278.8	290.1	297.3
62.5°	233.7	234.7	245.0	256.3	260.4
65°	200.9	204.0	213.2	222.4	226.5
67.5°	171.2	174.3	181.4	188.6	191.7
70°	143.5	143.5	150.7	155.8	158.9
72.5°	115.8	116.9	122.0	125.1	128.1
75°	93.3	91.2	95.3	98.4	99.4
77.5°	69.7	68.7	71.8	72.8	74.8
80°	50.2	50.2	51.3	52.3	52.3
82.5°	32.8	32.8	33.8	31.8	30.8
85°	18.5	18.5	16.4	16.4	16.4
87.5°	6.2	6.2	6.2	7.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)