

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: P258374

Luminaire Tested: **D3X-WD-42L935-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-42L935-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF  
Light Source: (252) 3500 CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3308.6 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

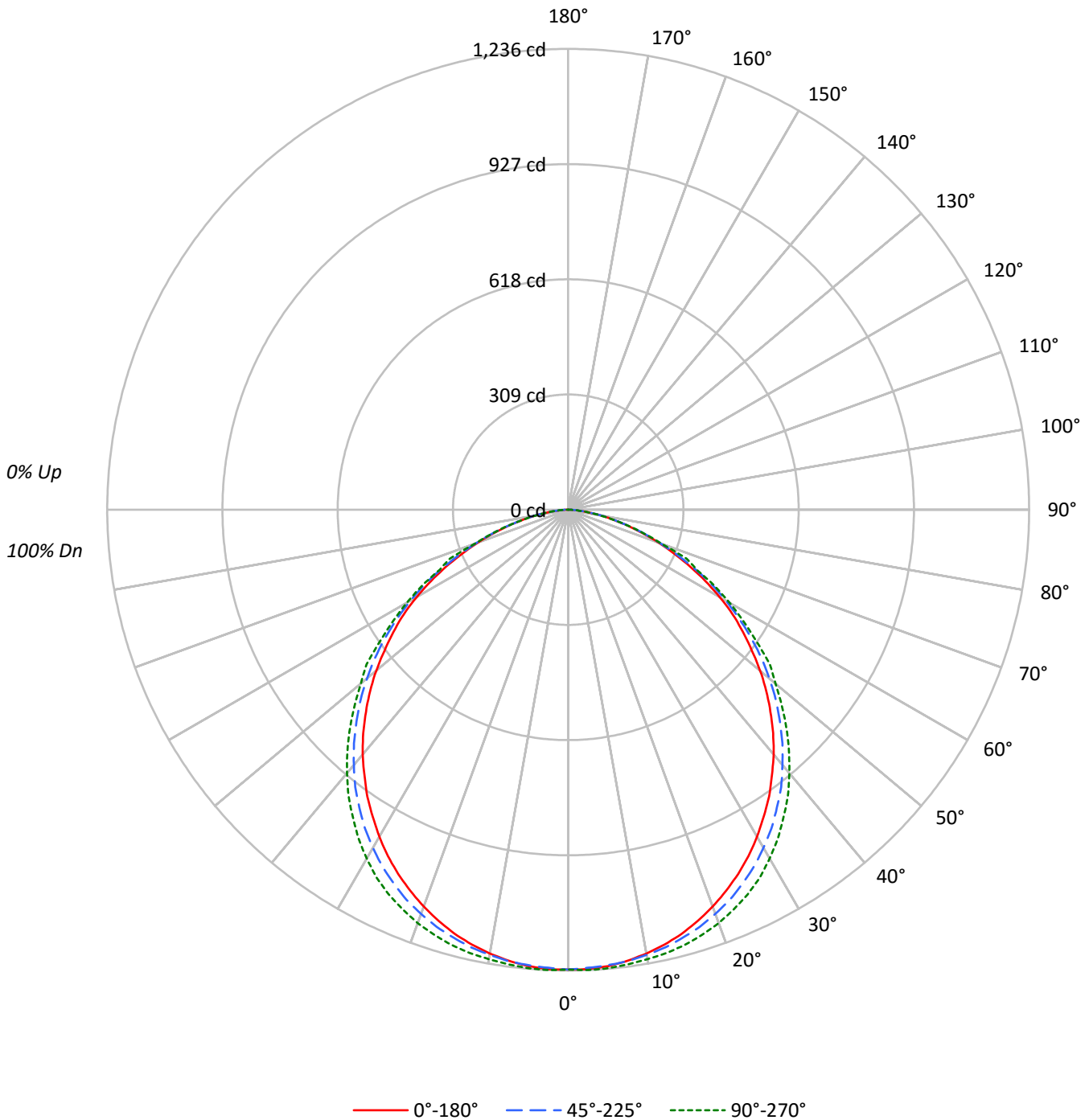
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	98	95	93	94	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	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	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	30	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°	1660	1660	1660
5°	1660	1656	1667
10°	1651	1656	1672
15°	1640	1655	1683
20°	1622	1652	1690
25°	1600	1643	1690
30°	1573	1627	1678
35°	1542	1603	1654
40°	1505	1570	1620
45°	1459	1527	1574
50°	1406	1474	1518
55°	1342	1403	1445
60°	1265	1313	1345
65°	1149	1187	1209
70°	1009	1032	1046
75°	852	864	870
80°	680	690	672
85°	459	477	459



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.9	3.5
10°-20°	336.2	10.2
20°-30°	510.0	15.4
30°-40°	608.9	18.4
40°-50°	616.5	18.6
50°-60°	532.9	16.1
60°-70°	369.3	11.2
70°-80°	178.7	5.4
80°-90°	39.3	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°	963.1	29.1
0°-40°	1572.0	47.5
0°-60°	2721.3	82.2
0°-90°	3308.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3308.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1229	1228	1226	1232	1235	117
15°	1178	1180	1188	1203	1208	332
25°	1078	1085	1106	1129	1138	496
35°	939	947	976	1001	1007	587
45°	767	778	802	823	827	592
55°	572	578	598	623	616	511
65°	361	364	373	379	380	357
75°	164	165	166	165	167	176
85°	30	32	31	30	30	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1233.4	1233.4	1233.4	1233.4	1233.4
2.5°	1233.4	1232.2	1229.9	1233.4	1235.8
5°	1228.7	1227.5	1226.3	1232.2	1234.6
7.5°	1220.4	1220.4	1221.6	1227.5	1229.9
10°	1208.5	1209.7	1212.1	1221.6	1223.9
12.5°	1194.3	1196.6	1202.6	1213.3	1218.0
15°	1177.6	1180.0	1188.3	1202.6	1208.5
17.5°	1156.3	1161.0	1172.9	1189.5	1195.4
20°	1132.5	1138.5	1153.9	1172.9	1180.0
22.5°	1106.4	1112.3	1132.5	1152.7	1159.8
25°	1077.9	1085.0	1106.4	1129.0	1138.5
27.5°	1047.1	1055.4	1079.1	1102.8	1112.3
30°	1012.6	1022.1	1047.1	1072.0	1080.3
32.5°	975.8	985.3	1013.8	1037.6	1045.9
35°	939.0	947.3	975.8	1000.8	1006.7
37.5°	897.5	907.0	937.8	959.2	967.5
40°	857.1	866.6	893.9	915.3	922.4
42.5°	813.2	822.7	850.0	870.2	876.1
45°	766.9	777.6	802.5	822.7	827.4
47.5°	720.6	728.9	755.0	772.8	776.4
50°	671.9	680.2	704.0	721.8	725.3
52.5°	620.9	633.9	652.9	666.0	681.4
55°	572.2	578.1	598.3	623.2	616.1
57.5°	523.5	527.1	543.7	554.4	556.8
60°	470.1	474.9	487.9	493.8	499.8
62.5°	414.3	417.9	433.3	439.2	441.6
65°	360.9	364.5	372.8	378.7	379.9
67.5°	306.3	309.8	317.0	321.7	343.1
70°	256.4	258.8	262.4	271.9	265.9
72.5°	208.9	210.1	213.7	213.7	214.9
75°	163.8	165.0	166.2	165.0	167.4
77.5°	122.3	124.6	125.8	124.6	123.5
80°	87.8	90.2	89.0	86.7	86.7
82.5°	57.0	58.2	57.0	55.8	55.8
85°	29.7	32.1	30.9	29.7	29.7
87.5°	10.7	11.9	13.1	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)