

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: P257457

Luminaire Tested: **D3X-WG-40L940-LD5-UNV-14-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-40L940-LD5-UNV-14-T1-STD  
Description: CORELITE D3X 1X4 LED LUMINAIRE WITH RECTANGULAR PERF  
Light Source: (112) 4000 CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3528.6 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

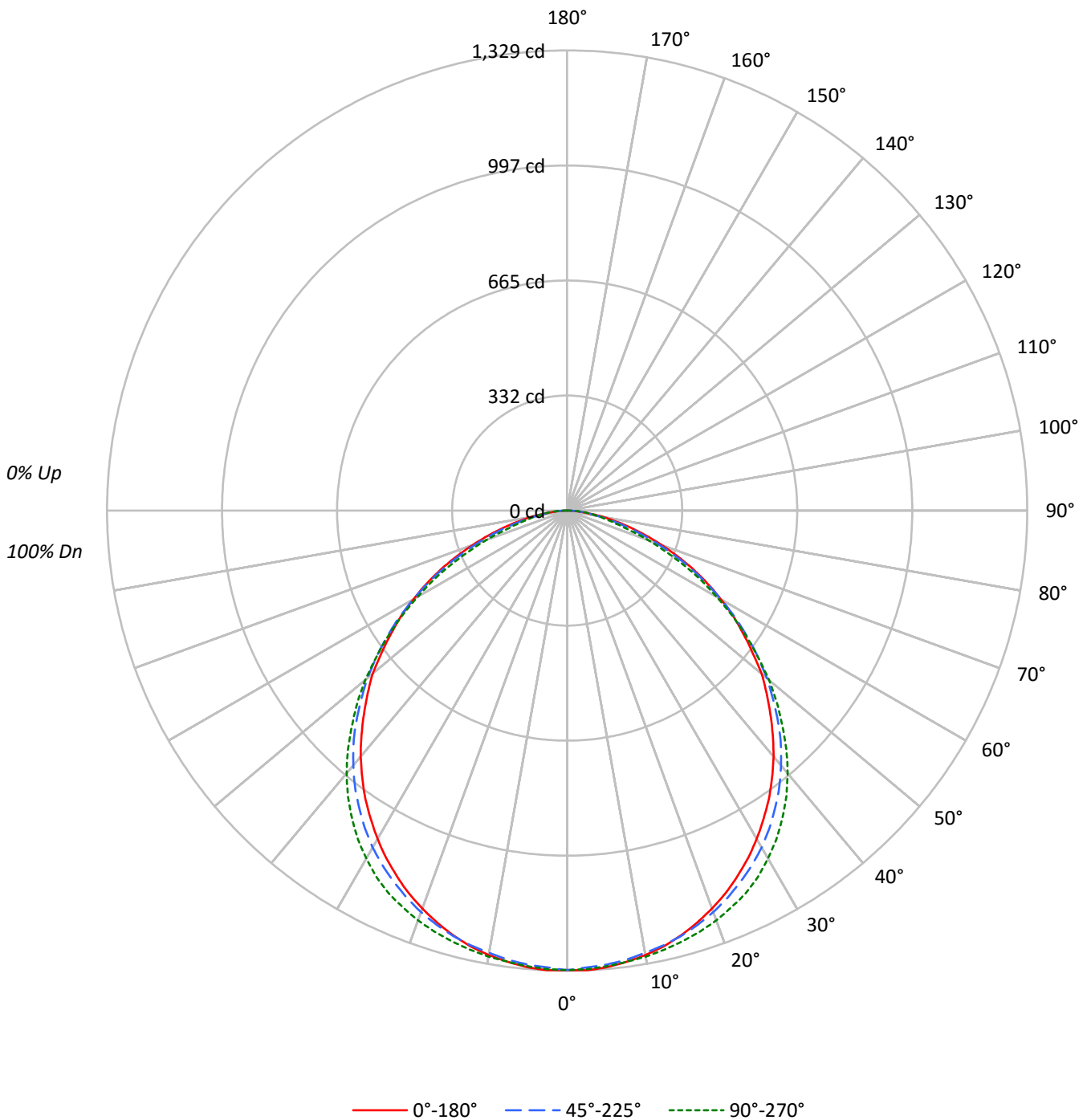
Input Watts (W): 41.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	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	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	3571	3571	3571
5°	3576	3555	3568
10°	3562	3544	3574
15°	3539	3543	3587
20°	3502	3533	3606
25°	3458	3514	3621
30°	3403	3491	3604
35°	3338	3442	3561
40°	3259	3376	3481
45°	3159	3279	3345
50°	3072	3151	3184
55°	2917	2976	2961
60°	2760	2760	2683
65°	2562	2502	2361
70°	2272	2172	1961
75°	1969	1788	1510
80°	1613	1393	1370
85°	1071	1266	1365



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.5	3.6
10°-20°	360.2	10.2
20°-30°	547.4	15.5
30°-40°	655.4	18.6
40°-50°	661.1	18.7
50°-60°	563.1	16.0
60°-70°	385.0	10.9
70°-80°	184.4	5.2
80°-90°	46.7	1.3
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°	1033.0	29.3
0°-40°	1688.4	47.8
0°-60°	2912.5	82.5
0°-90°	3528.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3528.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1324	1322	1316	1322	1321	126
15°	1270	1267	1272	1286	1288	358
25°	1164	1166	1183	1210	1220	536
35°	1016	1019	1048	1078	1084	635
45°	830	836	862	879	879	641
55°	622	625	634	636	631	557
65°	402	394	393	379	371	397
75°	189	186	172	150	145	202
85°	35	38	41	43	44	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1327.0	1327.0	1327.0	1327.0	1327.0
2.5°	1328.6	1327.0	1320.7	1327.0	1325.5
5°	1323.9	1322.3	1316.0	1322.3	1320.7
7.5°	1314.4	1312.8	1308.1	1314.4	1314.4
10°	1303.4	1300.2	1297.0	1306.5	1308.1
12.5°	1289.2	1286.0	1286.0	1297.0	1298.6
15°	1270.2	1267.1	1271.8	1286.0	1287.6
17.5°	1248.1	1246.6	1254.4	1271.8	1275.0
20°	1222.9	1221.3	1233.9	1254.4	1259.2
22.5°	1196.1	1196.1	1210.3	1233.9	1240.2
25°	1164.5	1166.1	1183.4	1210.3	1219.7
27.5°	1131.4	1134.5	1155.0	1185.0	1192.9
30°	1095.1	1099.8	1123.5	1151.9	1159.8
32.5°	1055.6	1060.4	1087.2	1117.2	1125.1
35°	1016.2	1019.3	1047.7	1077.7	1084.0
37.5°	972.0	976.7	1006.7	1033.5	1039.8
40°	927.8	932.6	961.0	986.2	990.9
42.5°	878.9	885.2	913.6	934.1	937.3
45°	830.0	836.3	861.5	878.9	878.9
47.5°	781.1	784.2	806.3	823.7	822.1
50°	733.7	732.2	752.7	760.6	760.6
52.5°	675.3	680.1	694.3	699.0	694.3
55°	621.7	624.9	634.3	635.9	631.2
57.5°	569.6	568.1	575.9	571.2	564.9
60°	512.8	512.8	512.8	508.1	498.6
62.5°	457.6	454.4	452.9	441.8	437.1
65°	402.4	394.5	392.9	378.7	370.8
67.5°	344.0	340.8	332.9	318.7	304.5
70°	288.8	285.6	276.1	258.8	249.3
72.5°	238.3	235.1	222.5	202.0	189.4
75°	189.4	186.2	172.0	149.9	145.2
77.5°	143.6	142.0	127.8	116.8	115.2
80°	104.1	102.6	89.9	89.9	88.4
82.5°	66.3	66.3	63.1	64.7	66.3
85°	34.7	37.9	41.0	42.6	44.2
87.5°	11.0	17.4	20.5	22.1	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)