

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: P257541

Luminaire Tested: **D3X-WO-40L835-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257541  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-40L835-LD5-UNV-22-T1-STD  
Description: CORELITE D3X 2X2 LED LUMINAIRE  
Light Source: (126) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4061.6 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

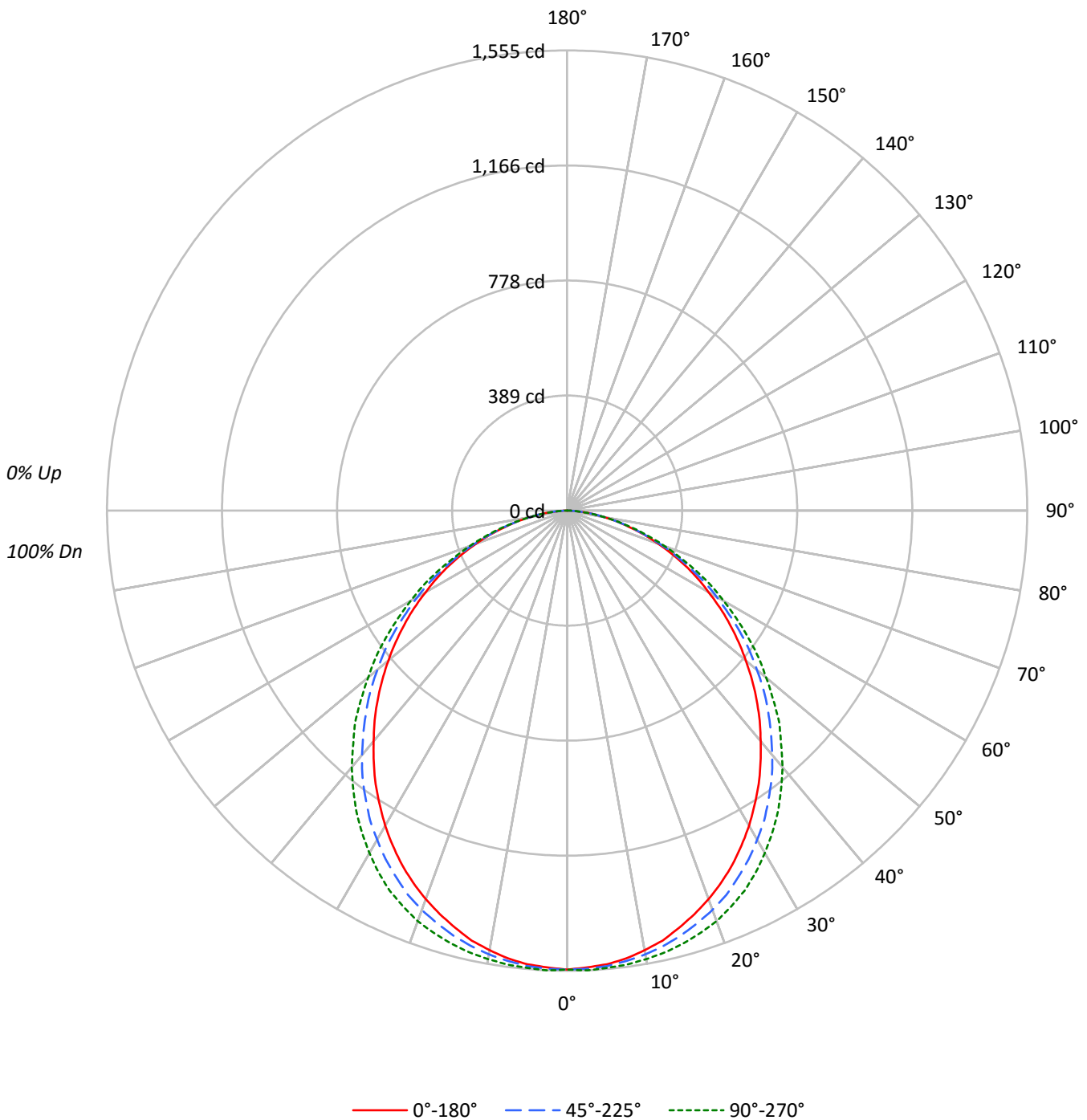
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	84	72	63	57	81	70	62	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	31	43	35	30		41	35	30		40	34	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°	4174	4174	4174
5°	4157	4173	4190
10°	4122	4161	4205
15°	4068	4141	4220
20°	4002	4112	4228
25°	3921	4059	4209
30°	3821	3990	4153
35°	3707	3900	4079
40°	3573	3786	3978
45°	3448	3656	3856
50°	3302	3505	3674
55°	3150	3340	3501
60°	2971	3145	3287
65°	2807	2910	3052
70°	2578	2657	2753
75°	2292	2355	2418
80°	1974	1943	1943
85°	1497	1374	1247



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.7	3.6
10°-20°	419.4	10.3
20°-30°	629.7	15.5
30°-40°	741.1	18.2
40°-50°	739.2	18.2
50°-60°	634.3	15.6
60°-70°	454.3	11.2
70°-80°	240.6	5.9
80°-90°	56.3	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°	1195.8	29.4
0°-40°	1936.9	47.7
0°-60°	3310.5	81.5
0°-90°	4061.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4061.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1551	1551	1551	1551	1551	
5°	1539	1539	1545	1549	1551	146
15°	1460	1466	1486	1507	1515	412
25°	1321	1333	1367	1402	1418	608
35°	1128	1143	1187	1228	1242	705
45°	906	920	961	995	1013	698
55°	671	682	712	736	746	600
65°	441	443	457	475	479	435
75°	220	220	226	230	233	236
85°	48	46	44	40	40	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1551.1	1551.1	1551.1	1551.1	1551.1
2.5°	1545.0	1545.0	1549.1	1553.1	1555.2
5°	1539.0	1539.0	1545.0	1549.1	1551.1
7.5°	1526.8	1526.8	1534.9	1543.0	1547.1
10°	1508.6	1512.7	1522.8	1534.9	1539.0
12.5°	1488.4	1492.5	1506.6	1522.8	1528.9
15°	1460.1	1466.2	1486.4	1506.6	1514.7
17.5°	1429.8	1437.9	1462.1	1486.4	1496.5
20°	1397.4	1405.5	1435.8	1464.1	1476.3
22.5°	1361.0	1371.1	1405.5	1435.8	1448.0
25°	1320.6	1332.7	1367.1	1401.5	1417.6
27.5°	1276.1	1290.2	1328.7	1365.1	1379.2
30°	1229.6	1245.7	1284.2	1322.6	1336.7
32.5°	1179.0	1193.2	1239.7	1276.1	1290.2
35°	1128.4	1142.6	1187.1	1227.5	1241.7
37.5°	1073.8	1092.0	1136.5	1172.9	1187.1
40°	1017.2	1035.4	1077.9	1120.4	1132.5
42.5°	962.6	978.8	1019.2	1057.7	1069.8
45°	906.0	920.1	960.6	995.0	1013.2
47.5°	847.3	861.5	901.9	934.3	944.4
50°	788.7	802.9	837.2	865.5	877.7
52.5°	730.1	744.2	776.6	802.9	815.0
55°	671.4	681.5	711.9	736.1	746.2
57.5°	612.8	620.8	645.1	671.4	677.5
60°	552.1	562.2	584.4	602.6	610.7
62.5°	497.5	501.5	521.8	537.9	548.0
65°	440.9	442.9	457.0	475.2	479.3
67.5°	382.2	384.2	398.4	408.5	412.5
70°	327.6	327.6	337.7	345.8	349.9
72.5°	275.0	273.0	279.1	287.2	291.2
75°	220.4	220.4	226.5	230.5	232.6
77.5°	173.9	169.9	173.9	178.0	178.0
80°	127.4	125.4	125.4	127.4	125.4
82.5°	87.0	84.9	87.0	82.9	80.9
85°	48.5	46.5	44.5	40.4	40.4
87.5°	16.2	14.2	14.2	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)