

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: P258422

Luminaire Tested: **D3X-WG-31L940-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-31L940-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF  
Light Source: (252) 4000 CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2568.5 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

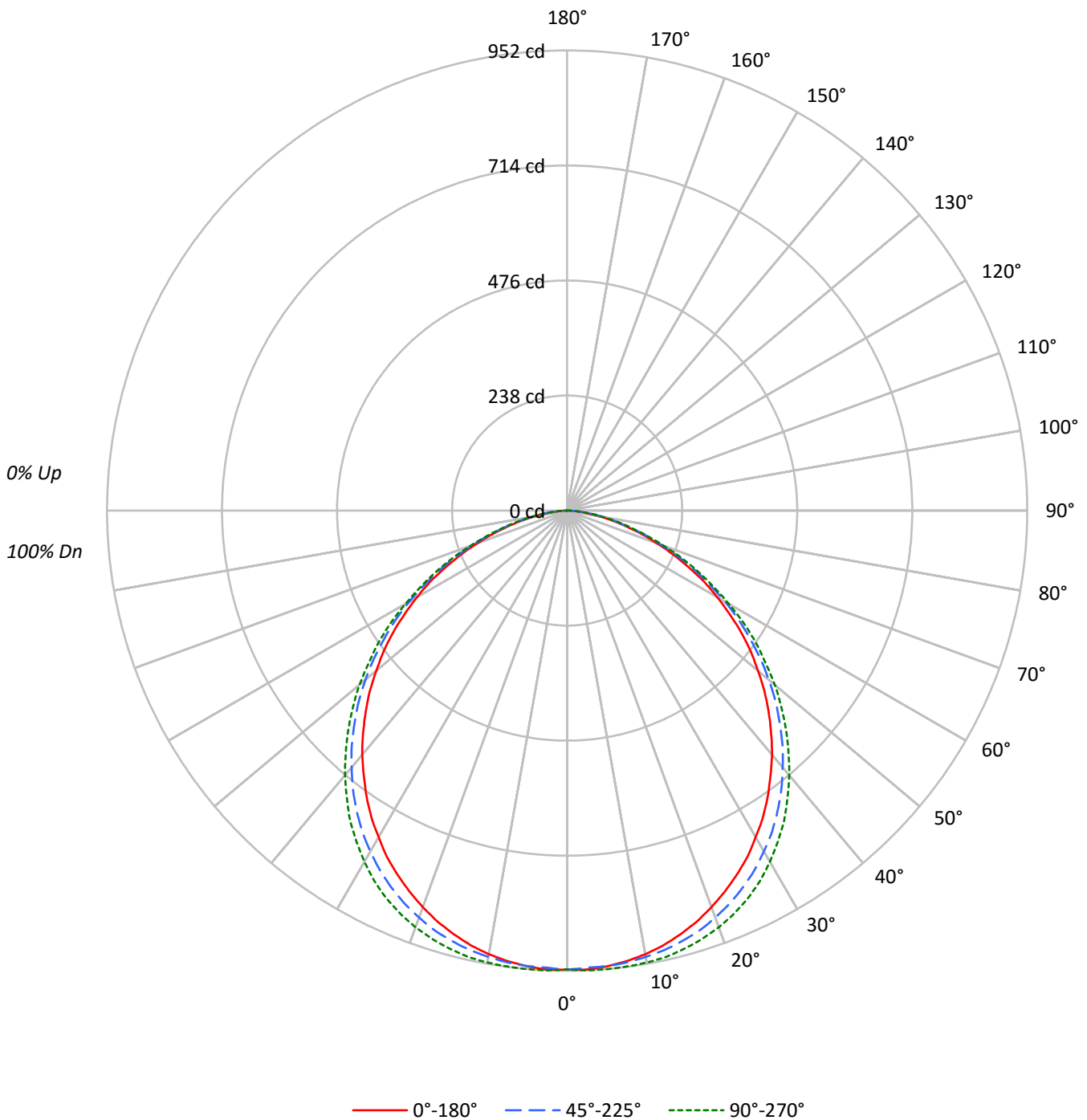
Input Watts (W): 22.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	71
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	47	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	27	38	32	27	37	31	27	26

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

	0°	45°	90°
0°	1278	1278	1278
5°	1279	1277	1286
10°	1273	1281	1297
15°	1264	1284	1307
20°	1250	1283	1313
25°	1233	1277	1314
30°	1212	1265	1304
35°	1188	1247	1286
40°	1159	1218	1256
45°	1122	1184	1219
50°	1078	1140	1175
55°	1032	1084	1118
60°	966	1015	1040
65°	882	929	952
70°	775	814	836
75°	655	689	713
80°	521	570	584
85°	355	426	412



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.2	3.5
10°-20°	260.5	10.1
20°-30°	395.8	15.4
30°-40°	472.3	18.4
40°-50°	477.0	18.6
50°-60°	411.0	16.0
60°-70°	286.5	11.2
70°-80°	142.0	5.5
80°-90°	33.1	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°	746.5	29.1
0°-40°	1218.8	47.5
0°-60°	2106.9	82.0
0°-90°	2568.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2568.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	947	946	946	950	952	90
15°	907	912	922	934	938	256
25°	831	842	860	878	885	383
35°	723	735	759	776	783	452
45°	590	603	622	637	640	455
55°	440	449	462	473	477	392
65°	277	282	292	294	299	275
75°	126	128	132	135	137	136
85°	23	28	28	26	27	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	949.5	949.5	949.5	949.5	949.5
2.5°	950.4	948.6	946.7	950.4	952.3
5°	946.7	945.8	945.8	950.4	952.3
7.5°	940.3	940.3	943.1	949.5	951.3
10°	932.0	933.9	937.5	946.7	949.5
12.5°	921.0	924.7	931.1	942.1	945.8
15°	907.2	911.8	921.9	933.9	938.5
17.5°	891.5	898.0	910.9	924.7	929.3
20°	873.1	881.4	896.1	911.8	917.3
22.5°	852.9	863.0	879.6	896.1	902.6
25°	830.8	841.9	860.3	877.7	885.1
27.5°	807.8	818.9	839.1	856.6	863.9
30°	780.2	793.1	814.3	832.7	839.1
32.5°	753.5	766.4	788.5	805.1	811.5
35°	723.2	735.1	759.0	776.5	783.0
37.5°	691.0	704.8	727.8	743.4	748.9
40°	659.7	671.6	693.7	709.4	714.9
42.5°	624.7	637.6	659.7	673.5	678.1
45°	589.8	602.6	622.0	636.7	640.4
47.5°	553.9	565.8	585.2	597.1	600.8
50°	515.2	526.3	544.7	556.6	561.2
52.5°	478.4	488.6	504.2	514.3	517.1
55°	439.8	449.0	461.9	472.9	476.6
57.5°	398.4	408.5	420.5	429.7	432.4
60°	358.8	367.1	377.2	385.5	386.4
62.5°	320.2	323.9	333.1	340.4	341.3
65°	276.9	282.5	291.7	294.4	299.0
67.5°	237.4	241.1	248.4	252.1	255.8
70°	196.9	199.7	207.0	211.6	212.5
72.5°	161.9	162.9	168.4	172.1	173.0
75°	126.0	127.9	132.5	135.2	137.1
77.5°	95.7	97.5	101.2	103.0	103.0
80°	67.2	69.9	73.6	74.5	75.4
82.5°	43.2	46.9	49.7	50.6	48.8
85°	23.0	27.6	27.6	25.8	26.7
87.5°	8.3	10.1	11.0	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)