

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: P258387

Luminaire Tested: **D3X-WD-50L940-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258387  
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-50L940-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF  
Light Source: (252) 4000 CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4033.0 lumens  
Efficiency: N/A  
Efficacy: 106.7 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

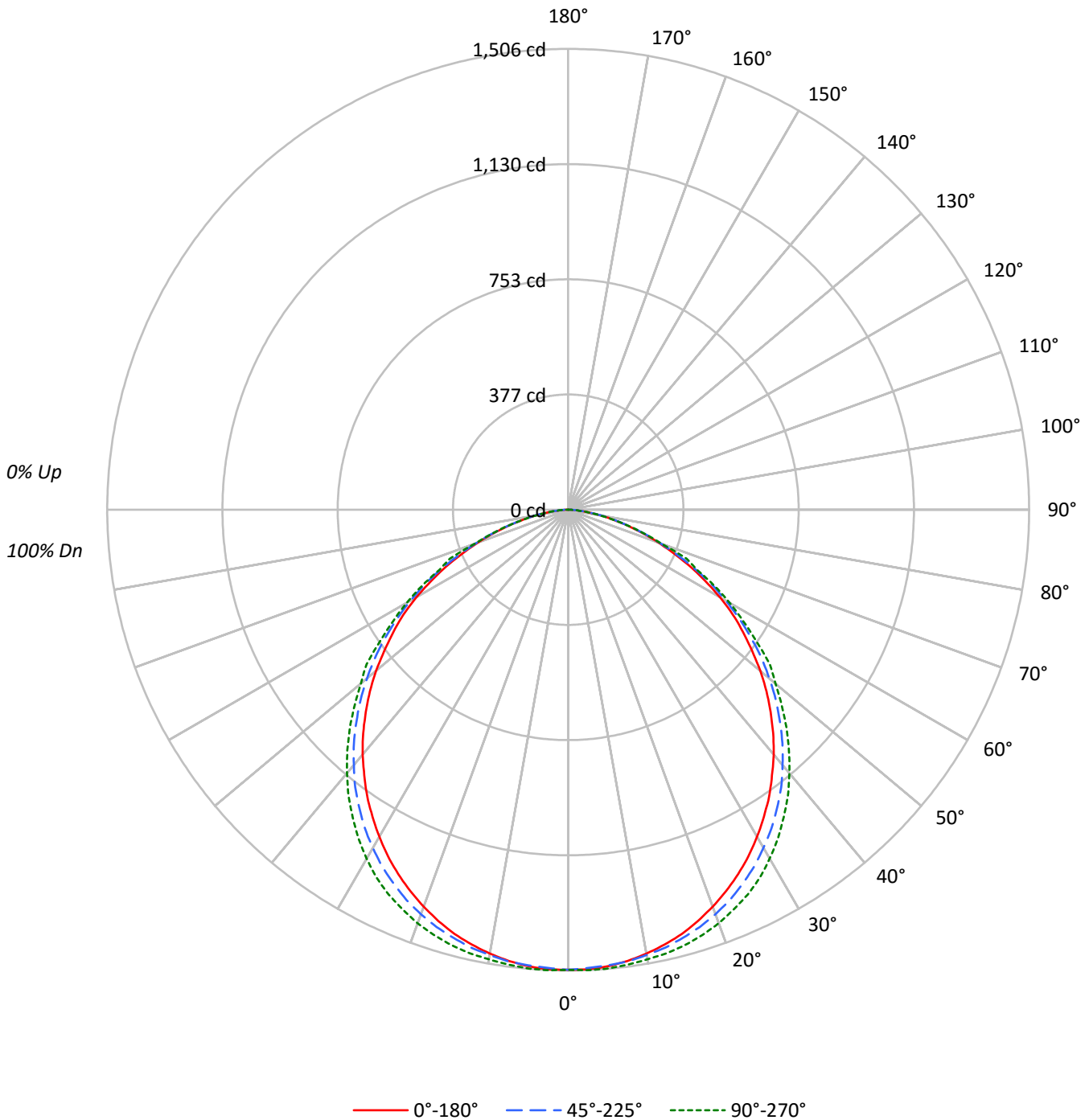
Input Watts (W): 37.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2023	2023	2023
5°	2023	2019	2033
10°	2013	2018	2038
15°	2000	2018	2052
20°	1977	2014	2059
25°	1951	2002	2060
30°	1918	1983	2046
35°	1880	1954	2016
40°	1835	1914	1975
45°	1779	1861	1919
50°	1714	1796	1851
55°	1636	1711	1762
60°	1542	1600	1639
65°	1401	1447	1474
70°	1230	1258	1275
75°	1038	1053	1061
80°	830	841	818
85°	559	580	559



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.5	3.5
10°-20°	409.7	10.2
20°-30°	621.7	15.4
30°-40°	742.2	18.4
40°-50°	751.4	18.6
50°-60°	649.5	16.1
60°-70°	450.2	11.2
70°-80°	217.8	5.4
80°-90°	47.9	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°	1173.9	29.1
0°-40°	1916.2	47.5
0°-60°	3317.1	82.2
0°-90°	4033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4033.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1504	1504	1504	1504	1504	
5°	1498	1496	1495	1502	1505	142
15°	1436	1438	1448	1466	1473	405
25°	1314	1323	1349	1376	1388	605
35°	1145	1155	1190	1220	1227	715
45°	935	948	978	1003	1009	721
55°	698	705	729	760	751	623
65°	440	444	454	462	463	435
75°	200	201	203	201	204	214
85°	36	39	38	36	36	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1503.5	1503.5	1503.5	1503.5	1503.5
2.5°	1503.5	1502.0	1499.1	1503.5	1506.4
5°	1497.7	1496.2	1494.8	1502.0	1504.9
7.5°	1487.5	1487.5	1489.0	1496.2	1499.1
10°	1473.1	1474.5	1477.4	1489.0	1491.9
12.5°	1455.7	1458.6	1465.8	1478.9	1484.7
15°	1435.5	1438.3	1448.5	1465.8	1473.1
17.5°	1409.4	1415.2	1429.7	1449.9	1457.2
20°	1380.5	1387.7	1406.5	1429.7	1438.3
22.5°	1348.6	1355.9	1380.5	1405.1	1413.7
25°	1313.9	1322.6	1348.6	1376.1	1387.7
27.5°	1276.3	1286.4	1315.3	1344.3	1355.9
30°	1234.3	1245.9	1276.3	1306.7	1316.8
32.5°	1189.5	1201.0	1235.8	1264.7	1274.8
35°	1144.6	1154.7	1189.5	1219.8	1227.1
37.5°	1094.0	1105.5	1143.2	1169.2	1179.3
40°	1044.8	1056.3	1089.6	1115.7	1124.3
42.5°	991.2	1002.8	1036.1	1060.7	1067.9
45°	934.8	947.8	978.2	1002.8	1008.6
47.5°	878.3	888.5	920.3	942.0	946.4
50°	819.0	829.1	858.1	879.8	884.1
52.5°	756.8	772.7	795.9	811.8	830.6
55°	697.5	704.7	729.3	759.7	751.0
57.5°	638.1	642.5	662.7	675.8	678.7
60°	573.0	578.8	594.7	602.0	609.2
62.5°	505.0	509.4	528.2	535.4	538.3
65°	439.9	444.2	454.4	461.6	463.0
67.5°	373.3	377.7	386.4	392.1	418.2
70°	312.6	315.5	319.8	331.4	324.1
72.5°	254.7	256.1	260.5	260.5	261.9
75°	199.7	201.1	202.6	201.1	204.0
77.5°	149.0	151.9	153.4	151.9	150.5
80°	107.1	110.0	108.5	105.6	105.6
82.5°	69.5	70.9	69.5	68.0	68.0
85°	36.2	39.1	37.6	36.2	36.2
87.5°	13.0	14.5	15.9	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)