

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: P258417

Luminaire Tested: **D3X-WD-80L940-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258417  
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-80L940-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: 6499.0 lumens  
Efficiency: N/A  
Efficacy: 96.4 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

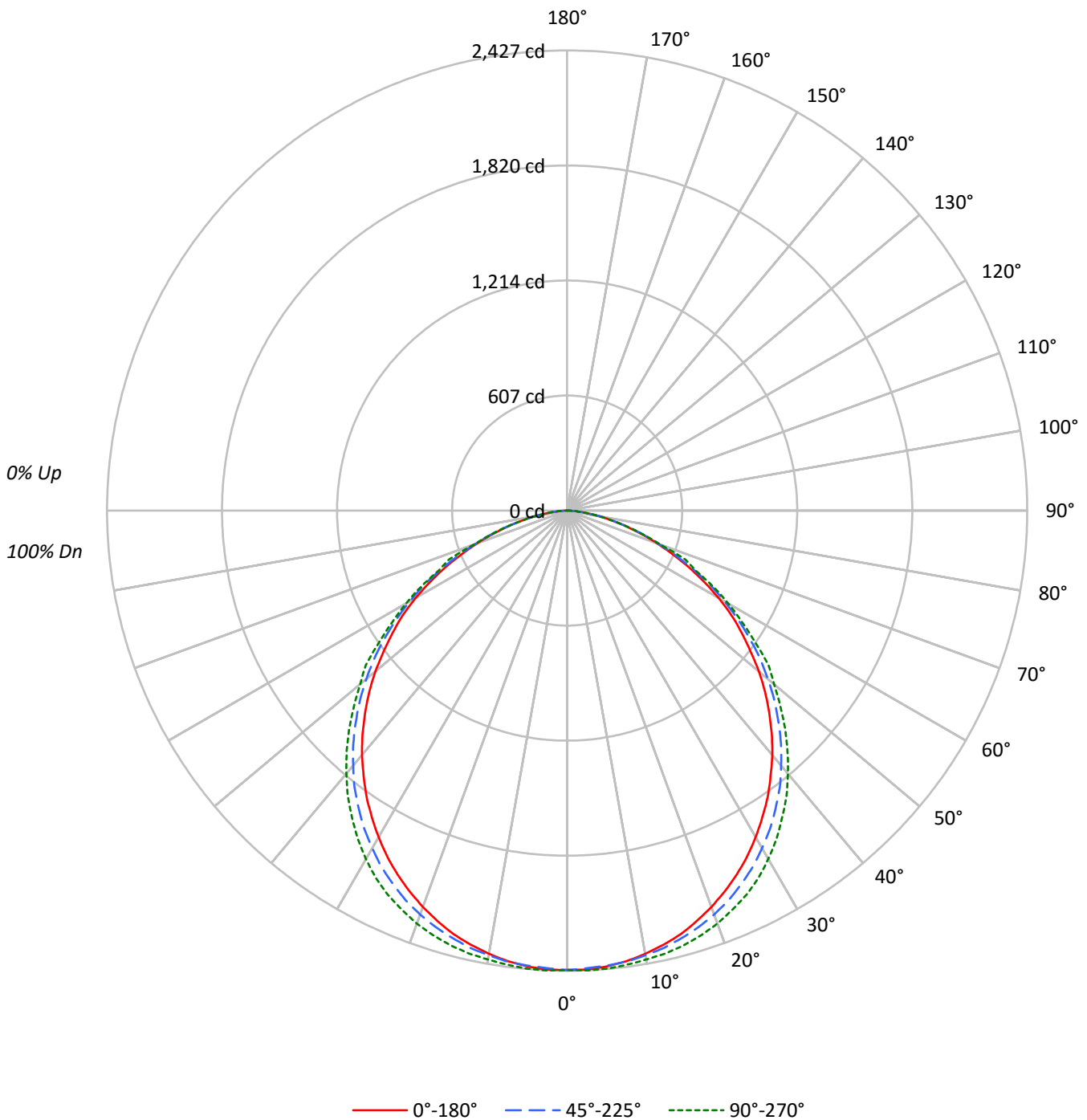
Input Watts (W): 67.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P258417

CATALOG NUMBER: D3X-WD-80L940-LD5-UNV-24-T1-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P258417

CATALOG NUMBER: D3X-WD-80L940-LD5-UNV-24-T1-STD

**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°	3260	3260	3260
5°	3260	3253	3275
10°	3243	3253	3285
15°	3222	3251	3307
20°	3185	3245	3319
25°	3143	3226	3320
30°	3090	3195	3297
35°	3030	3148	3248
40°	2957	3084	3182
45°	2866	2999	3093
50°	2763	2894	2982
55°	2636	2757	2839
60°	2485	2579	2642
65°	2257	2331	2376
70°	1982	2027	2055
75°	1673	1697	1709
80°	1337	1355	1319
85°	900	936	900



TEST NUMBER: P258417

CATALOG NUMBER: D3X-WD-80L940-LD5-UNV-24-T1-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.6	3.5
10°-20°	660.3	10.2
20°-30°	1001.8	15.4
30°-40°	1196.1	18.4
40°-50°	1210.9	18.6
50°-60°	1046.7	16.1
60°-70°	725.4	11.2
70°-80°	351.0	5.4
80°-90°	77.2	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°	1891.7	29.1
0°-40°	3087.8	47.5
0°-60°	5345.4	82.2
0°-90°	6499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6499.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2423	2423	2423	2423	2423	
5°	2414	2411	2409	2420	2425	229
15°	2313	2318	2334	2362	2374	652
25°	2117	2131	2173	2218	2236	975
35°	1844	1861	1917	1966	1977	1152
45°	1506	1527	1576	1616	1625	1162
55°	1124	1136	1175	1224	1210	1004
65°	709	716	732	744	746	702
75°	322	324	326	324	329	345
85°	58	63	61	58	58	75
90°	0	0	0	0	0	



TEST NUMBER: P258417

CATALOG NUMBER: D3X-WD-80L940-LD5-UNV-24-T1-STD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2422.8	2422.8	2422.8	2422.8	2422.8
2.5°	2422.8	2420.4	2415.8	2422.8	2427.4
5°	2413.5	2411.1	2408.8	2420.4	2425.1
7.5°	2397.1	2397.1	2399.5	2411.1	2415.8
10°	2373.8	2376.1	2380.8	2399.5	2404.1
12.5°	2345.8	2350.5	2362.2	2383.1	2392.5
15°	2313.2	2317.8	2334.2	2362.2	2373.8
17.5°	2271.2	2280.5	2303.9	2336.5	2348.2
20°	2224.6	2236.2	2266.5	2303.9	2317.8
22.5°	2173.3	2184.9	2224.6	2264.2	2278.2
25°	2117.3	2131.3	2173.3	2217.6	2236.2
27.5°	2056.7	2073.0	2119.6	2166.3	2184.9
30°	1989.1	2007.7	2056.7	2105.7	2122.0
32.5°	1916.8	1935.4	1991.4	2038.0	2054.4
35°	1844.5	1860.8	1916.8	1965.7	1977.4
37.5°	1762.9	1781.5	1842.2	1884.1	1900.4
40°	1683.6	1702.2	1755.9	1797.8	1811.8
42.5°	1597.3	1616.0	1669.6	1709.2	1720.9
45°	1506.4	1527.4	1576.3	1616.0	1625.3
47.5°	1415.4	1431.7	1483.0	1518.0	1525.0
50°	1319.8	1336.1	1382.8	1417.8	1424.8
52.5°	1219.6	1245.2	1282.5	1308.2	1338.5
55°	1123.9	1135.6	1175.2	1224.2	1210.2
57.5°	1028.3	1035.3	1068.0	1089.0	1093.6
60°	923.4	932.7	958.4	970.0	981.7
62.5°	813.8	820.8	851.1	862.8	867.4
65°	708.9	715.9	732.2	743.9	746.2
67.5°	601.6	608.6	622.6	631.9	673.9
70°	503.7	508.3	515.3	534.0	522.3
72.5°	410.4	412.7	419.7	419.7	422.1
75°	321.8	324.1	326.5	324.1	328.8
77.5°	240.2	244.8	247.2	244.8	242.5
80°	172.6	177.2	174.9	170.2	170.2
82.5°	111.9	114.3	111.9	109.6	109.6
85°	58.3	63.0	60.6	58.3	58.3
87.5°	21.0	23.3	25.7	28.0	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)