

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: P258411

Luminaire Tested: **D3X-WD-74L940-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258411
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-74L940-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: 5995.7 lumens
Efficiency: N/A
Efficacy: 97.3 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

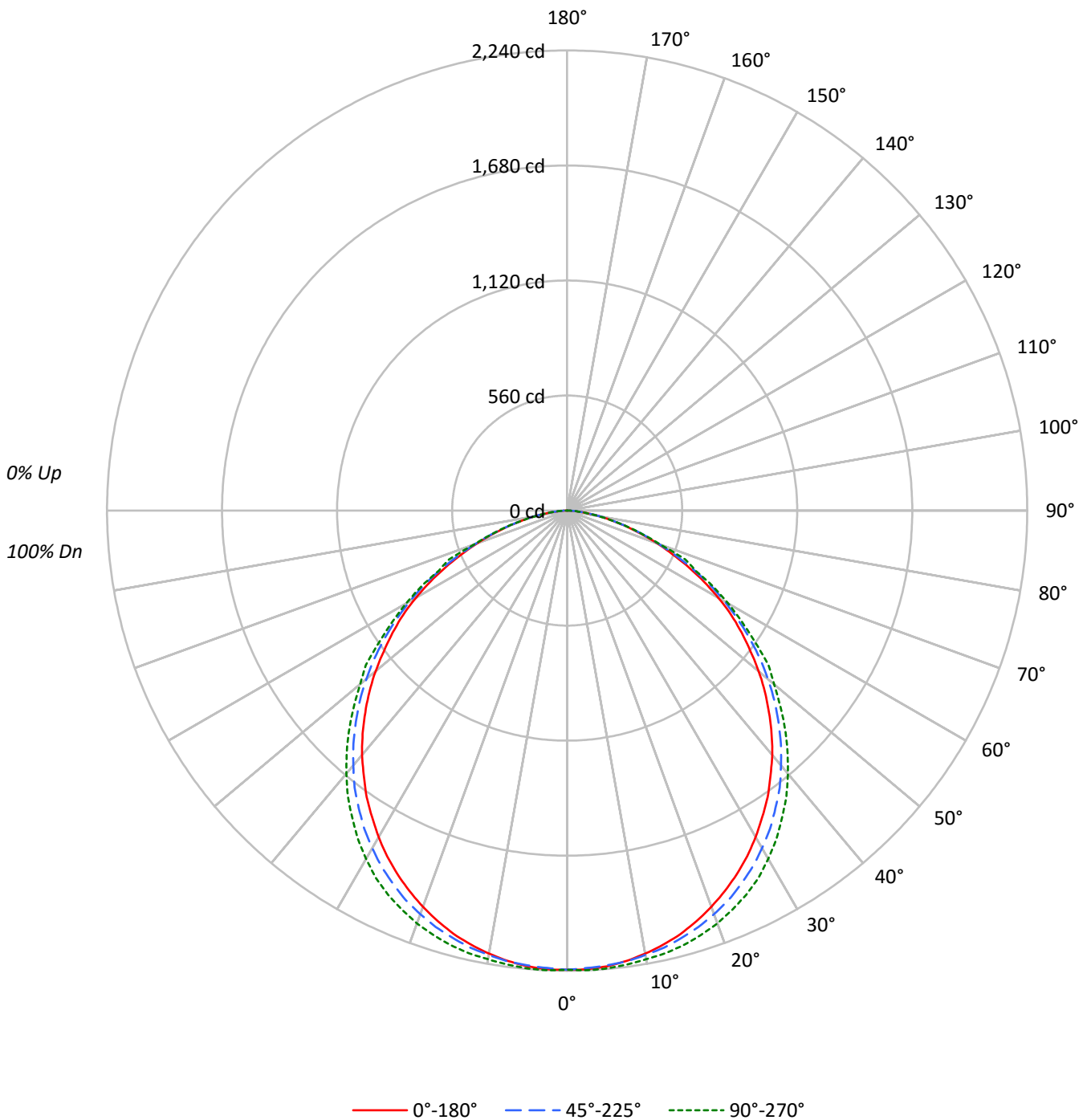
Input Watts (W): 61.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3007	3007	3007
5°	3007	3002	3022
10°	2992	3001	3030
15°	2973	3000	3051
20°	2939	2994	3062
25°	2900	2977	3063
30°	2851	2948	3042
35°	2795	2905	2996
40°	2728	2845	2936
45°	2644	2767	2853
50°	2549	2670	2751
55°	2432	2543	2619
60°	2292	2379	2437
65°	2082	2151	2192
70°	1828	1870	1896
75°	1543	1566	1577
80°	1234	1250	1216
85°	831	863	831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	3.5
10°-20°	609.2	10.2
20°-30°	924.3	15.4
30°-40°	1103.4	18.4
40°-50°	1117.1	18.6
50°-60°	965.6	16.1
60°-70°	669.3	11.2
70°-80°	323.8	5.4
80°-90°	71.2	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°	1745.2	29.1
0°-40°	2848.7	47.5
0°-60°	4931.4	82.2
0°-90°	5995.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5995.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2235	2235	2235	2235	2235	
5°	2227	2224	2222	2233	2237	211
15°	2134	2138	2153	2179	2190	601
25°	1953	1966	2005	2046	2063	900
35°	1702	1717	1768	1814	1824	1063
45°	1390	1409	1454	1491	1499	1072
55°	1037	1048	1084	1129	1116	927
65°	654	660	676	686	688	647
75°	297	299	301	299	303	319
85°	54	58	56	54	54	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2235.2	2235.2	2235.2	2235.2	2235.2
2.5°	2235.2	2233.0	2228.7	2235.2	2239.5
5°	2226.6	2224.4	2222.3	2233.0	2237.3
7.5°	2211.5	2211.5	2213.7	2224.4	2228.7
10°	2190.0	2192.1	2196.4	2213.7	2218.0
12.5°	2164.2	2168.5	2179.2	2198.6	2207.2
15°	2134.1	2138.4	2153.4	2179.2	2190.0
17.5°	2095.3	2103.9	2125.4	2155.6	2166.3
20°	2052.3	2063.1	2091.0	2125.4	2138.4
22.5°	2005.0	2015.7	2052.3	2088.9	2101.8
25°	1953.3	1966.3	2005.0	2045.9	2063.1
27.5°	1897.4	1912.5	1955.5	1998.5	2015.7
30°	1835.0	1852.2	1897.4	1942.6	1957.7
32.5°	1768.3	1785.5	1837.2	1880.2	1895.3
35°	1701.7	1716.7	1768.3	1813.5	1824.3
37.5°	1626.4	1643.6	1699.5	1738.2	1753.3
40°	1553.2	1570.4	1619.9	1658.6	1671.5
42.5°	1473.6	1490.8	1540.3	1576.9	1587.6
45°	1389.7	1409.1	1454.3	1490.8	1499.4
47.5°	1305.8	1320.9	1368.2	1400.5	1406.9
50°	1217.6	1232.7	1275.7	1308.0	1314.4
52.5°	1125.1	1148.8	1183.2	1206.9	1234.8
55°	1036.9	1047.7	1084.2	1129.4	1116.5
57.5°	948.7	955.2	985.3	1004.6	1008.9
60°	851.9	860.5	884.2	894.9	905.7
62.5°	750.8	757.2	785.2	796.0	800.3
65°	654.0	660.4	675.5	686.3	688.4
67.5°	555.0	561.5	574.4	583.0	621.7
70°	464.7	469.0	475.4	492.6	481.9
72.5°	378.6	380.8	387.2	387.2	389.4
75°	296.9	299.0	301.2	299.0	303.3
77.5°	221.6	225.9	228.0	225.9	223.7
80°	159.2	163.5	161.3	157.0	157.0
82.5°	103.3	105.4	103.3	101.1	101.1
85°	53.8	58.1	55.9	53.8	53.8
87.5°	19.4	21.5	23.7	25.8	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)