

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: P258382

Luminaire Tested: **D3X-WD-50L830-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258382
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-50L830-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (252) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4383.4 lumens
Efficiency: N/A
Efficacy: 116.0 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

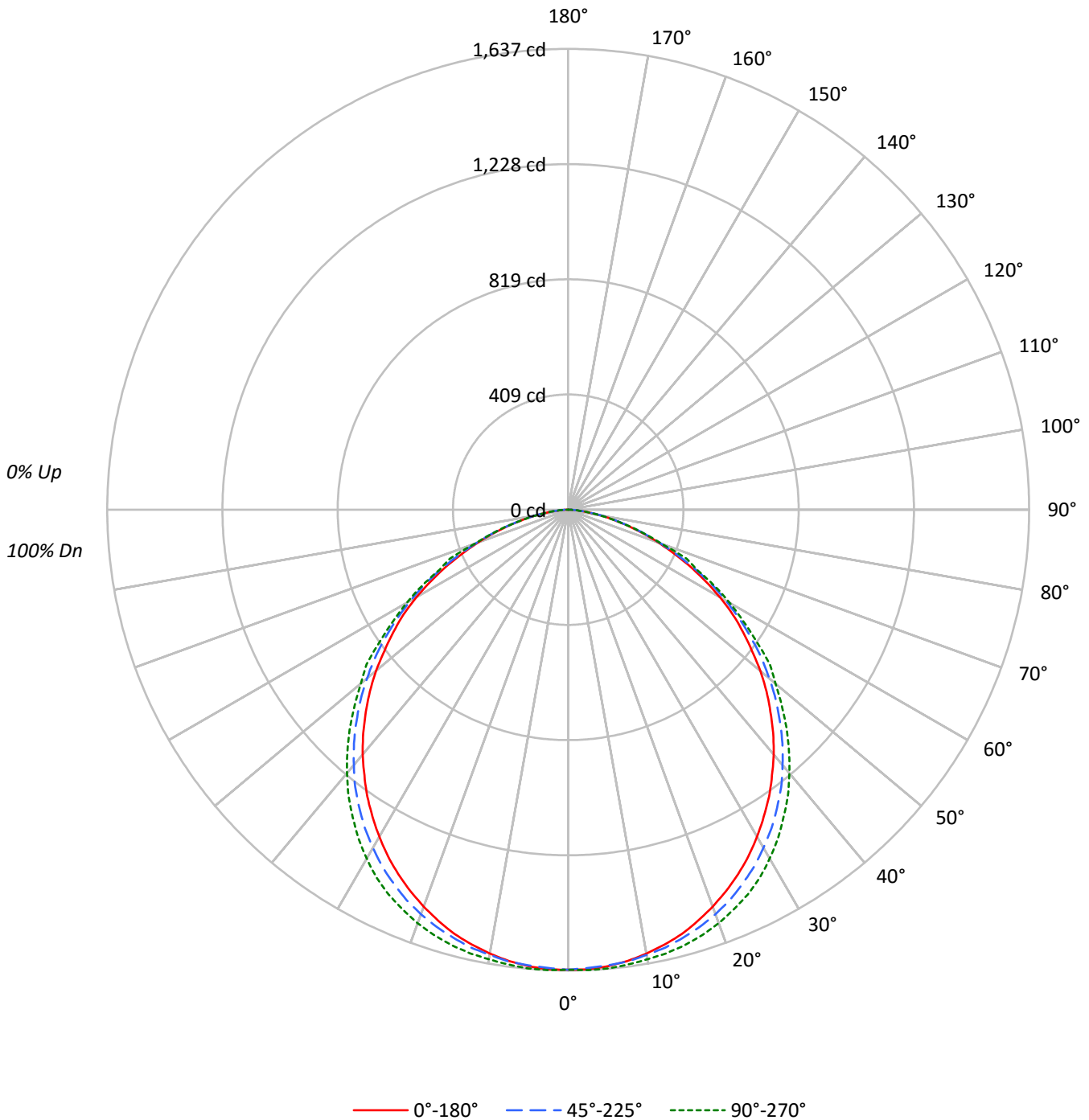
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2199	2199	2199
5°	2199	2194	2209
10°	2187	2194	2215
15°	2173	2193	2230
20°	2148	2189	2238
25°	2120	2176	2239
30°	2084	2155	2224
35°	2043	2123	2191
40°	1994	2080	2146
45°	1933	2023	2086
50°	1863	1952	2012
55°	1778	1860	1915
60°	1676	1739	1782
65°	1522	1572	1602
70°	1336	1367	1386
75°	1128	1145	1153
80°	902	914	890
85°	607	631	607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	3.5
10°-20°	445.3	10.2
20°-30°	675.7	15.4
30°-40°	806.7	18.4
40°-50°	816.7	18.6
50°-60°	706.0	16.1
60°-70°	489.3	11.2
70°-80°	236.7	5.4
80°-90°	52.1	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°	1275.9	29.1
0°-40°	2082.6	47.5
0°-60°	3605.3	82.2
0°-90°	4383.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4383.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1628	1626	1625	1632	1636	155
15°	1560	1563	1574	1593	1601	440
25°	1428	1438	1466	1496	1508	658
35°	1244	1255	1293	1326	1334	777
45°	1016	1030	1063	1090	1096	784
55°	758	766	793	826	816	677
65°	478	483	494	502	503	473
75°	217	219	220	219	222	233
85°	39	42	41	39	39	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1634.1	1634.1	1634.1	1634.1	1634.1
2.5°	1634.1	1632.5	1629.4	1634.1	1637.2
5°	1627.8	1626.2	1624.7	1632.5	1635.7
7.5°	1616.8	1616.8	1618.4	1626.2	1629.4
10°	1601.1	1602.6	1605.8	1618.4	1621.5
12.5°	1582.2	1585.3	1593.2	1607.4	1613.6
15°	1560.2	1563.3	1574.3	1593.2	1601.1
17.5°	1531.9	1538.2	1553.9	1575.9	1583.8
20°	1500.4	1508.3	1528.7	1553.9	1563.3
22.5°	1465.8	1473.7	1500.4	1527.1	1536.6
25°	1428.1	1437.5	1465.8	1495.7	1508.3
27.5°	1387.2	1398.2	1429.6	1461.1	1473.7
30°	1341.6	1354.1	1387.2	1420.2	1431.2
32.5°	1292.8	1305.4	1343.1	1374.6	1385.6
35°	1244.0	1255.1	1292.8	1325.8	1333.7
37.5°	1189.0	1201.6	1242.5	1270.8	1281.8
40°	1135.5	1148.1	1184.3	1212.6	1222.0
42.5°	1077.3	1089.9	1126.1	1152.8	1160.7
45°	1016.0	1030.2	1063.2	1089.9	1096.2
47.5°	954.7	965.7	1000.3	1023.9	1028.6
50°	890.2	901.2	932.6	956.2	961.0
52.5°	822.5	839.9	865.0	882.3	902.8
55°	758.1	765.9	792.7	825.7	816.3
57.5°	693.6	698.3	720.3	734.5	737.6
60°	622.8	629.1	646.4	654.3	662.1
62.5°	548.9	553.6	574.1	581.9	585.1
65°	478.1	482.8	493.8	501.7	503.3
67.5°	405.8	410.5	419.9	426.2	454.5
70°	339.7	342.9	347.6	360.2	352.3
72.5°	276.8	278.4	283.1	283.1	284.7
75°	217.0	218.6	220.2	218.6	221.8
77.5°	162.0	165.1	166.7	165.1	163.6
80°	116.4	119.5	118.0	114.8	114.8
82.5°	75.5	77.1	75.5	73.9	73.9
85°	39.3	42.5	40.9	39.3	39.3
87.5°	14.2	15.7	17.3	18.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)