

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: P258384

Luminaire Tested: **D3X-WD-50L840-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258384
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-50L840-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (252) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4565.8 lumens
Efficiency: N/A
Efficacy: 120.8 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

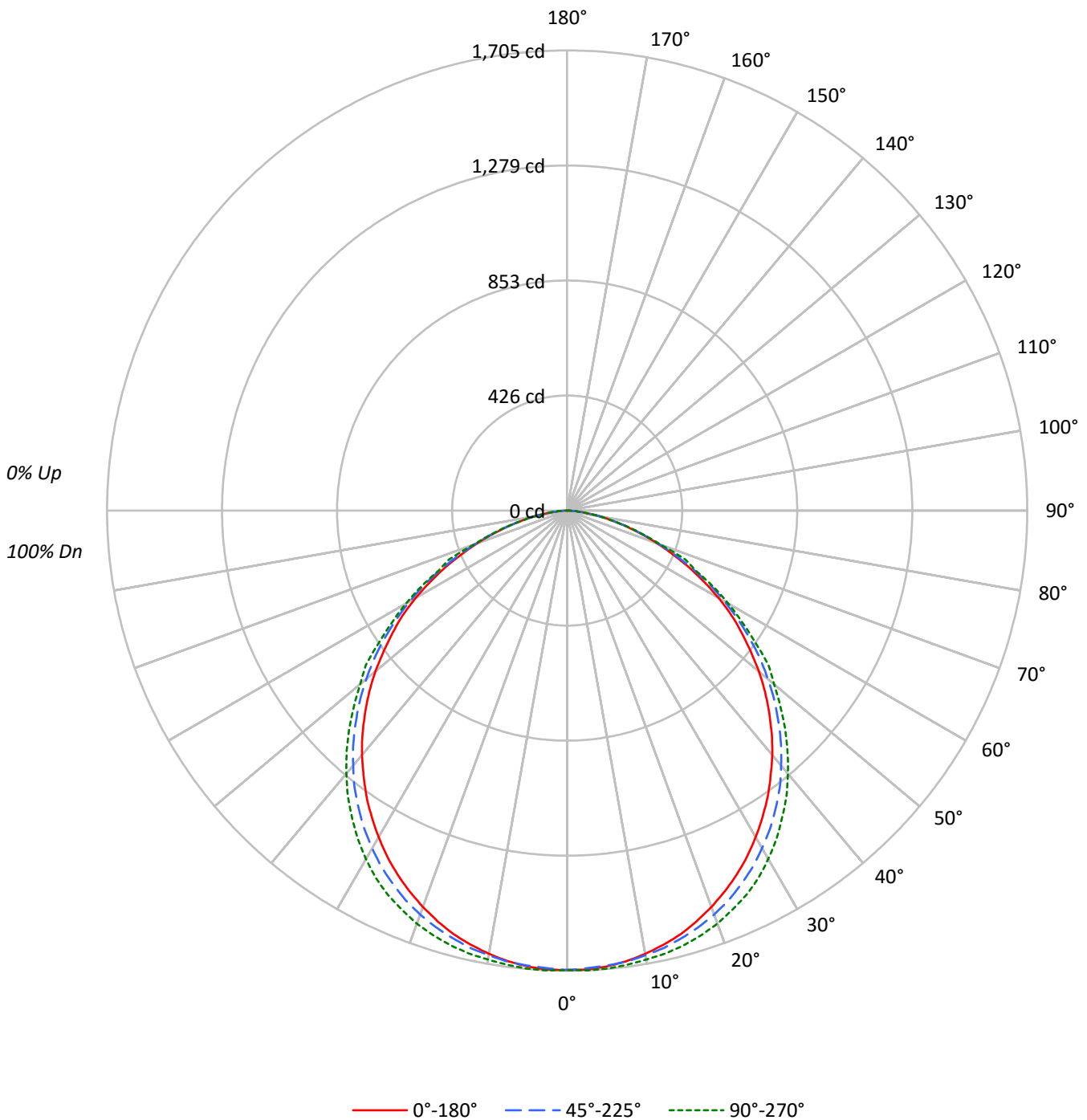
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2290	2290	2290
5°	2290	2286	2301
10°	2278	2285	2308
15°	2264	2284	2323
20°	2238	2280	2332
25°	2208	2267	2332
30°	2171	2245	2316
35°	2128	2212	2282
40°	2077	2167	2236
45°	2014	2107	2173
50°	1941	2034	2095
55°	1852	1937	1994
60°	1746	1812	1856
65°	1585	1638	1669
70°	1392	1424	1444
75°	1175	1192	1201
80°	939	952	927
85°	633	658	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	3.5
10°-20°	463.9	10.2
20°-30°	703.8	15.4
30°-40°	840.3	18.4
40°-50°	850.7	18.6
50°-60°	735.3	16.1
60°-70°	509.6	11.2
70°-80°	246.6	5.4
80°-90°	54.2	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°	1329.0	29.1
0°-40°	2169.3	47.5
0°-60°	3755.3	82.2
0°-90°	4565.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4565.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1702	1702	1702	1702	1702	
5°	1696	1694	1692	1700	1704	161
15°	1625	1628	1640	1660	1668	458
25°	1488	1497	1527	1558	1571	685
35°	1296	1307	1347	1381	1389	809
45°	1058	1073	1107	1135	1142	816
55°	790	798	826	860	850	706
65°	498	503	514	523	524	493
75°	226	228	229	228	231	243
85°	41	44	43	41	41	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1702.1	1702.1	1702.1	1702.1	1702.1
2.5°	1702.1	1700.5	1697.2	1702.1	1705.4
5°	1695.5	1693.9	1692.3	1700.5	1703.7
7.5°	1684.1	1684.1	1685.7	1693.9	1697.2
10°	1667.7	1669.3	1672.6	1685.7	1689.0
12.5°	1648.0	1651.3	1659.5	1674.2	1680.8
15°	1625.1	1628.4	1639.8	1659.5	1667.7
17.5°	1595.6	1602.2	1618.5	1641.5	1649.7
20°	1562.8	1571.0	1592.3	1618.5	1628.4
22.5°	1526.8	1535.0	1562.8	1590.7	1600.5
25°	1487.5	1497.3	1526.8	1557.9	1571.0
27.5°	1444.9	1456.4	1489.1	1521.9	1535.0
30°	1397.4	1410.5	1444.9	1479.3	1490.8
32.5°	1346.6	1359.7	1399.0	1431.8	1443.3
35°	1295.8	1307.3	1346.6	1381.0	1389.2
37.5°	1238.5	1251.6	1294.2	1323.7	1335.1
40°	1182.8	1195.9	1233.6	1263.1	1272.9
42.5°	1122.2	1135.3	1173.0	1200.8	1209.0
45°	1058.3	1073.0	1107.4	1135.3	1141.8
47.5°	994.4	1005.9	1041.9	1066.5	1071.4
50°	927.2	938.7	971.5	996.0	1000.9
52.5°	856.8	874.8	901.0	919.0	940.3
55°	789.6	797.8	825.7	860.1	850.2
57.5°	722.4	727.4	750.3	765.0	768.3
60°	648.7	655.3	673.3	681.5	689.7
62.5°	571.7	576.6	597.9	606.1	609.4
65°	498.0	502.9	514.4	522.6	524.2
67.5°	422.7	427.6	437.4	444.0	473.4
70°	353.9	357.1	362.0	375.1	367.0
72.5°	288.3	290.0	294.9	294.9	296.5
75°	226.1	227.7	229.3	227.7	231.0
77.5°	168.7	172.0	173.6	172.0	170.4
80°	121.2	124.5	122.9	119.6	119.6
82.5°	78.6	80.3	78.6	77.0	77.0
85°	41.0	44.2	42.6	41.0	41.0
87.5°	14.7	16.4	18.0	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)