

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: P258441

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-50L830-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (252) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4390.5 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

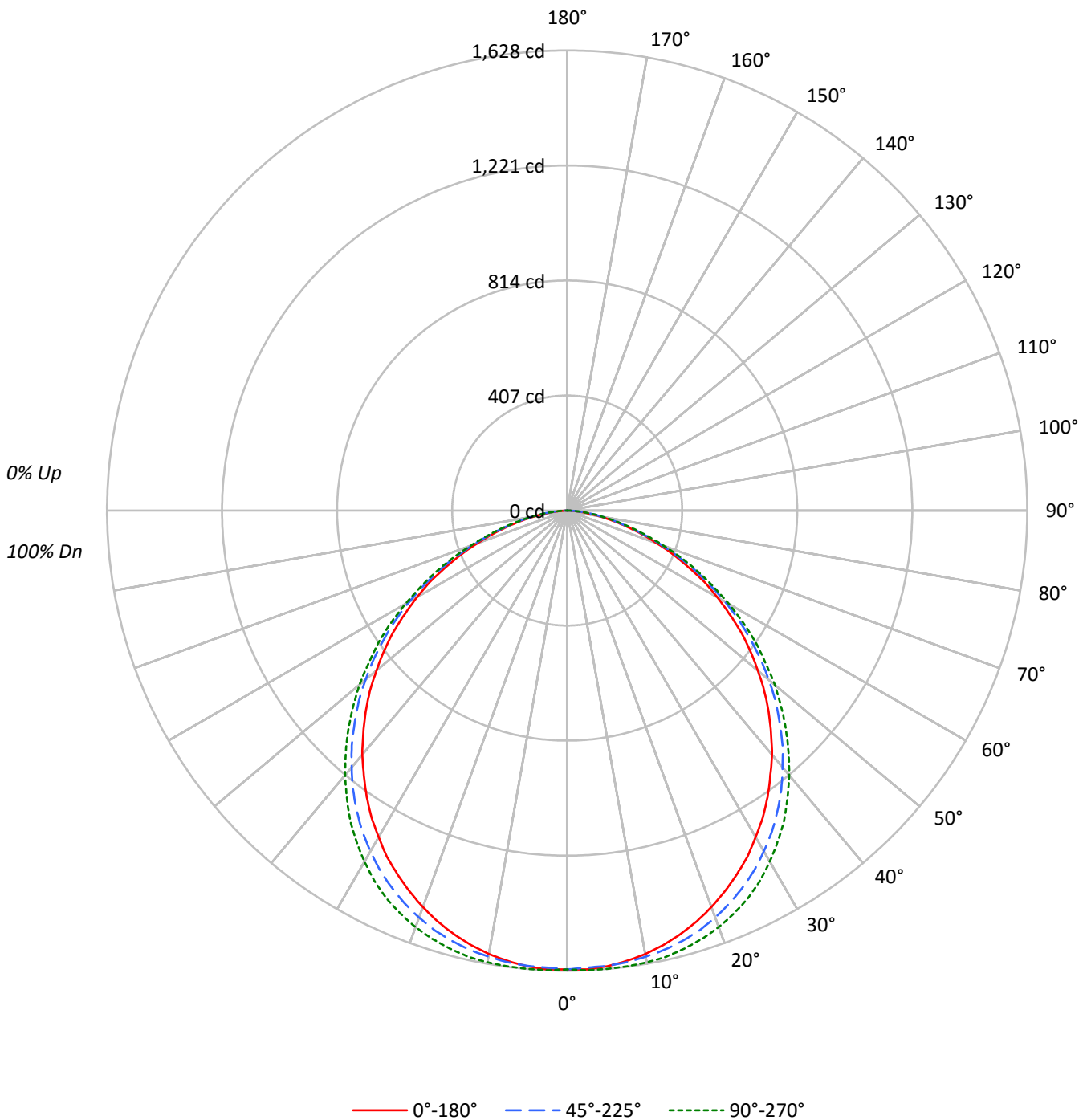
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
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	47	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	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2184	2184	2184
5°	2186	2184	2199
10°	2177	2190	2218
15°	2160	2195	2235
20°	2137	2193	2245
25°	2108	2183	2246
30°	2072	2163	2228
35°	2031	2131	2198
40°	1981	2083	2146
45°	1918	2023	2083
50°	1843	1949	2008
55°	1764	1852	1911
60°	1651	1735	1778
65°	1507	1587	1627
70°	1324	1392	1429
75°	1120	1177	1218
80°	890	975	1000
85°	607	729	704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	3.5
10°-20°	445.2	10.1
20°-30°	676.6	15.4
30°-40°	807.4	18.4
40°-50°	815.4	18.6
50°-60°	702.6	16.0
60°-70°	489.7	11.2
70°-80°	242.7	5.5
80°-90°	56.6	1.3
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°	1276.1	29.1
0°-40°	2083.5	47.5
0°-60°	3601.5	82.0
0°-90°	4390.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4390.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1623	1623	1623	1623	1623	
5°	1618	1617	1617	1625	1628	154
15°	1551	1559	1576	1596	1604	437
25°	1420	1439	1470	1500	1513	654
35°	1236	1257	1298	1327	1338	773
45°	1008	1030	1063	1088	1095	777
55°	752	768	790	808	815	670
65°	473	483	499	503	511	470
75°	216	219	226	231	234	232
85°	39	47	47	44	46	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1623.1	1623.1	1623.1	1623.1	1623.1
2.5°	1624.7	1621.5	1618.4	1624.7	1627.8
5°	1618.4	1616.8	1616.8	1624.7	1627.8
7.5°	1607.4	1607.4	1612.1	1623.1	1626.2
10°	1593.2	1596.3	1602.6	1618.4	1623.1
12.5°	1574.3	1580.6	1591.6	1610.5	1616.8
15°	1550.7	1558.6	1575.9	1596.3	1604.2
17.5°	1524.0	1535.0	1557.0	1580.6	1588.5
20°	1492.5	1506.7	1531.9	1558.6	1568.0
22.5°	1457.9	1475.2	1503.6	1531.9	1542.9
25°	1420.2	1439.1	1470.5	1500.4	1513.0
27.5°	1380.9	1399.7	1434.3	1464.2	1476.8
30°	1333.7	1355.7	1391.9	1423.3	1434.3
32.5°	1288.1	1310.1	1347.8	1376.2	1387.2
35°	1236.2	1256.6	1297.5	1327.4	1338.4
37.5°	1181.1	1204.7	1244.0	1270.8	1280.2
40°	1127.7	1148.1	1185.9	1212.6	1222.0
42.5°	1067.9	1089.9	1127.7	1151.3	1159.1
45°	1008.1	1030.2	1063.2	1088.3	1094.6
47.5°	946.8	967.2	1000.3	1020.7	1027.0
50°	880.7	899.6	931.1	951.5	959.4
52.5°	817.8	835.1	861.9	879.2	883.9
55°	751.8	767.5	789.5	808.4	814.7
57.5°	681.0	698.3	718.7	734.5	739.2
60°	613.4	627.5	644.8	659.0	660.6
62.5°	547.3	553.6	569.3	581.9	583.5
65°	473.4	482.8	498.6	503.3	511.1
67.5°	405.8	412.1	424.6	430.9	437.2
70°	336.6	341.3	353.9	361.7	363.3
72.5°	276.8	278.4	287.8	294.1	295.7
75°	215.5	218.6	226.5	231.2	234.3
77.5°	163.6	166.7	173.0	176.1	176.1
80°	114.8	119.5	125.8	127.4	129.0
82.5°	73.9	80.2	84.9	86.5	83.4
85°	39.3	47.2	47.2	44.0	45.6
87.5°	14.2	17.3	18.9	20.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)