

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: P258435

Luminaire Tested: **D3X-WG-45L830-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258435  
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-45L830-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: 3992.6 lumens  
Efficiency: N/A  
Efficacy: 117.4 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

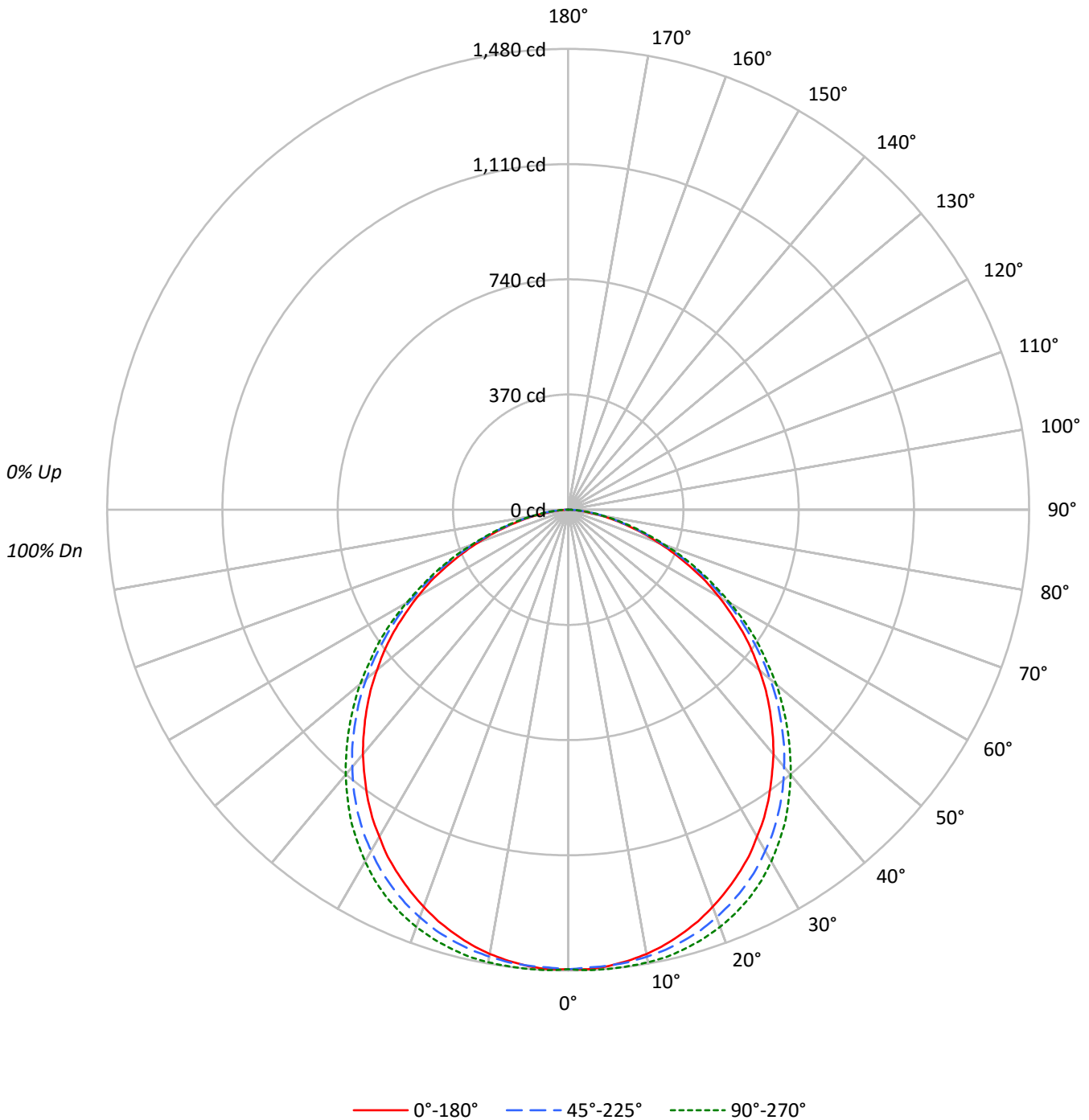
Input Watts (W): 34  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1986	1986	1986
5°	1988	1986	1999
10°	1979	1991	2017
15°	1964	1996	2032
20°	1943	1995	2042
25°	1917	1985	2043
30°	1884	1966	2027
35°	1847	1938	1999
40°	1801	1894	1952
45°	1744	1840	1894
50°	1676	1772	1826
55°	1604	1684	1738
60°	1501	1578	1616
65°	1371	1443	1480
70°	1204	1266	1300
75°	1018	1071	1108
80°	809	886	909
85°	553	662	641



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.2	3.5
10°-20°	404.9	10.1
20°-30°	615.3	15.4
30°-40°	734.2	18.4
40°-50°	741.5	18.6
50°-60°	638.9	16.0
60°-70°	445.4	11.2
70°-80°	220.7	5.5
80°-90°	51.5	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°	1160.4	29.1
0°-40°	1894.7	47.5
0°-60°	3275.1	82.0
0°-90°	3992.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3992.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1476	1476	1476	1476	1476	
5°	1472	1470	1470	1477	1480	140
15°	1410	1417	1433	1452	1459	398
25°	1292	1309	1337	1364	1376	595
35°	1124	1143	1180	1207	1217	703
45°	917	937	967	990	995	707
55°	684	698	718	735	741	609
65°	430	439	453	458	465	427
75°	196	199	206	210	213	211
85°	36	43	43	40	42	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1476.0	1476.0	1476.0	1476.0	1476.0
2.5°	1477.4	1474.6	1471.7	1477.4	1480.3
5°	1471.7	1470.3	1470.3	1477.4	1480.3
7.5°	1461.7	1461.7	1466.0	1476.0	1478.8
10°	1448.8	1451.7	1457.4	1471.7	1476.0
12.5°	1431.7	1437.4	1447.4	1464.5	1470.3
15°	1410.2	1417.3	1433.1	1451.7	1458.8
17.5°	1385.9	1395.9	1415.9	1437.4	1444.5
20°	1357.3	1370.2	1393.0	1417.3	1425.9
22.5°	1325.8	1341.5	1367.3	1393.0	1403.0
25°	1291.5	1308.7	1337.3	1364.4	1375.9
27.5°	1255.7	1272.9	1304.4	1331.5	1343.0
30°	1212.8	1232.9	1265.7	1294.3	1304.4
32.5°	1171.4	1191.4	1225.7	1251.4	1261.5
35°	1124.2	1142.7	1179.9	1207.1	1217.1
37.5°	1074.1	1095.5	1131.3	1155.6	1164.2
40°	1025.5	1044.1	1078.4	1102.7	1111.3
42.5°	971.1	991.1	1025.5	1046.9	1054.1
45°	916.8	936.8	966.8	989.7	995.4
47.5°	861.0	879.6	909.6	928.2	933.9
50°	800.9	818.1	846.7	865.3	872.4
52.5°	743.7	759.4	783.8	799.5	803.8
55°	683.6	697.9	718.0	735.1	740.9
57.5°	619.3	635.0	653.6	667.9	672.2
60°	557.8	570.7	586.4	599.3	600.7
62.5°	497.7	503.4	517.7	529.2	530.6
65°	430.5	439.1	453.4	457.7	464.8
67.5°	369.0	374.7	386.2	391.9	397.6
70°	306.1	310.4	321.8	329.0	330.4
72.5°	251.7	253.1	261.7	267.5	268.9
75°	195.9	198.8	206.0	210.2	213.1
77.5°	148.7	151.6	157.3	160.2	160.2
80°	104.4	108.7	114.4	115.8	117.3
82.5°	67.2	72.9	77.2	78.7	75.8
85°	35.8	42.9	42.9	40.0	41.5
87.5°	12.9	15.7	17.2	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)