

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: P258370

Luminaire Tested: **D3X-WD-42L830-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258370  
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-42L830-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: 3689.3 lumens  
Efficiency: N/A  
Efficacy: 118.2 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

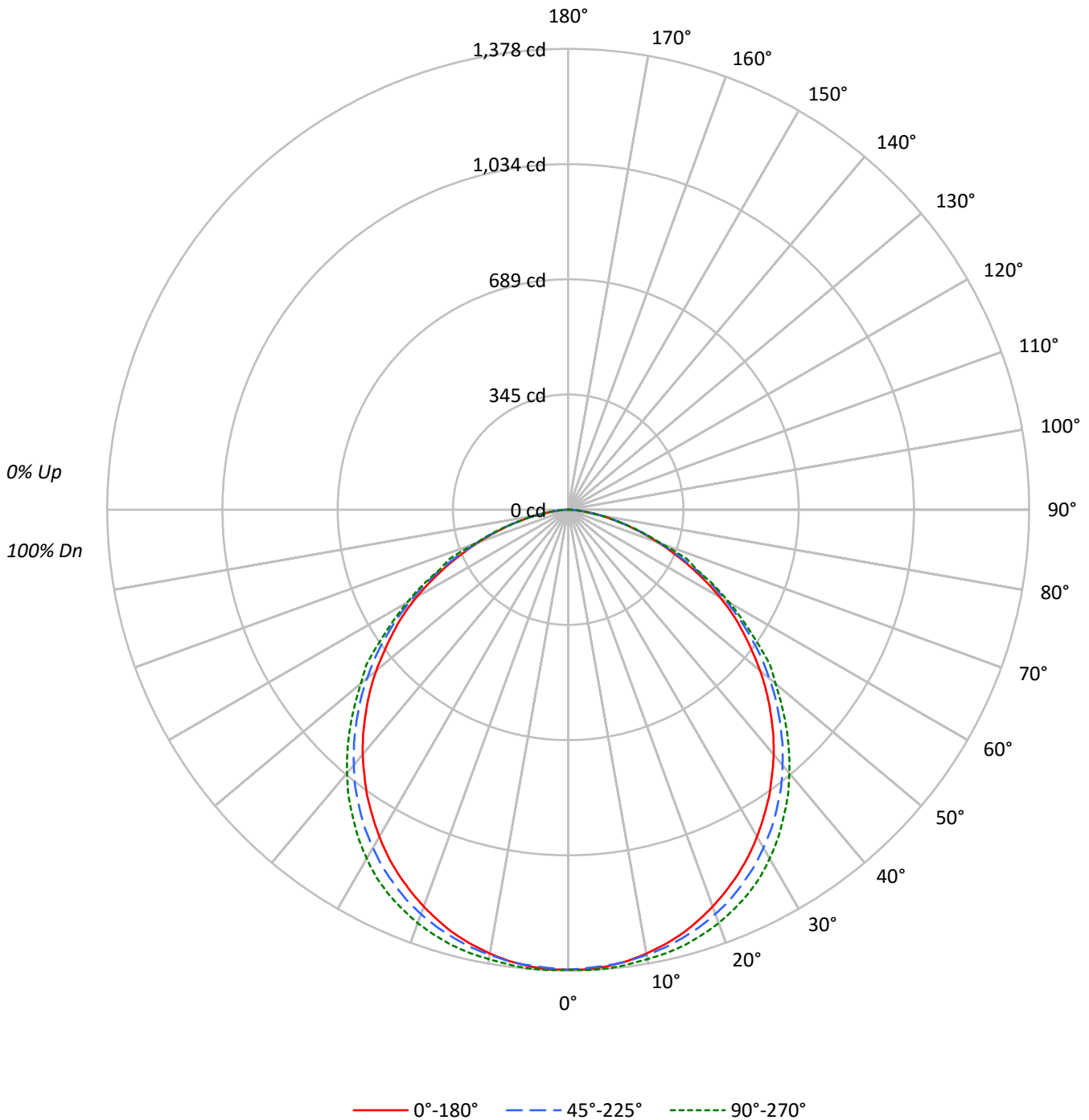
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1851	1851	1851
5°	1850	1847	1859
10°	1841	1846	1865
15°	1829	1846	1877
20°	1808	1842	1884
25°	1784	1832	1885
30°	1754	1814	1872
35°	1720	1787	1844
40°	1679	1751	1806
45°	1627	1703	1756
50°	1568	1643	1693
55°	1497	1565	1612
60°	1411	1464	1500
65°	1281	1323	1349
70°	1125	1151	1166
75°	950	963	970
80°	759	769	748
85°	511	531	511



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.3	3.5
10°-20°	374.8	10.2
20°-30°	568.7	15.4
30°-40°	679.0	18.4
40°-50°	687.4	18.6
50°-60°	594.2	16.1
60°-70°	411.8	11.2
70°-80°	199.3	5.4
80°-90°	43.8	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°	1073.9	29.1
0°-40°	1752.9	47.5
0°-60°	3034.5	82.2
0°-90°	3689.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3689.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1370	1369	1367	1374	1377	130
15°	1313	1316	1325	1341	1348	370
25°	1202	1210	1234	1259	1270	554
35°	1047	1056	1088	1116	1122	654
45°	855	867	895	917	923	660
55°	638	645	667	695	687	570
65°	402	406	416	422	424	398
75°	183	184	185	184	187	196
85°	33	36	34	33	33	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1375.4	1375.4	1375.4	1375.4	1375.4
2.5°	1375.4	1374.0	1371.4	1375.4	1378.0
5°	1370.1	1368.7	1367.4	1374.0	1376.7
7.5°	1360.8	1360.8	1362.1	1368.7	1371.4
10°	1347.6	1348.9	1351.5	1362.1	1364.8
12.5°	1331.7	1334.3	1340.9	1352.9	1358.2
15°	1313.1	1315.8	1325.1	1340.9	1347.6
17.5°	1289.3	1294.6	1307.9	1326.4	1333.0
20°	1262.8	1269.5	1286.7	1307.9	1315.8
22.5°	1233.7	1240.3	1262.8	1285.3	1293.3
25°	1202.0	1209.9	1233.7	1258.9	1269.5
27.5°	1167.5	1176.8	1203.3	1229.8	1240.3
30°	1129.1	1139.7	1167.5	1195.3	1204.6
32.5°	1088.1	1098.7	1130.5	1156.9	1166.2
35°	1047.1	1056.3	1088.1	1115.9	1122.5
37.5°	1000.7	1011.3	1045.8	1069.6	1078.8
40°	955.7	966.3	996.8	1020.6	1028.5
42.5°	906.8	917.3	947.8	970.3	976.9
45°	855.1	867.0	894.8	917.3	922.6
47.5°	803.5	812.8	841.9	861.8	865.7
50°	749.2	758.5	785.0	804.8	808.8
52.5°	692.3	706.9	728.1	742.6	759.8
55°	638.0	644.7	667.2	695.0	687.0
57.5°	583.8	587.7	606.3	618.2	620.8
60°	524.2	529.5	544.1	550.7	557.3
62.5°	462.0	466.0	483.2	489.8	492.4
65°	402.4	406.4	415.7	422.3	423.6
67.5°	341.5	345.5	353.4	358.7	382.6
70°	285.9	288.6	292.5	303.1	296.5
72.5°	233.0	234.3	238.3	238.3	239.6
75°	182.7	184.0	185.3	184.0	186.6
77.5°	136.3	139.0	140.3	139.0	137.7
80°	98.0	100.6	99.3	96.6	96.6
82.5°	63.5	64.9	63.5	62.2	62.2
85°	33.1	35.7	34.4	33.1	33.1
87.5°	11.9	13.2	14.6	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)