

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: P257300

Luminaire Tested: **D3X-WD-44L830-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-44L830-LD5-UNV-22-T1-STD
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH ROUND PERF
Light Source: (126) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4003.2 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

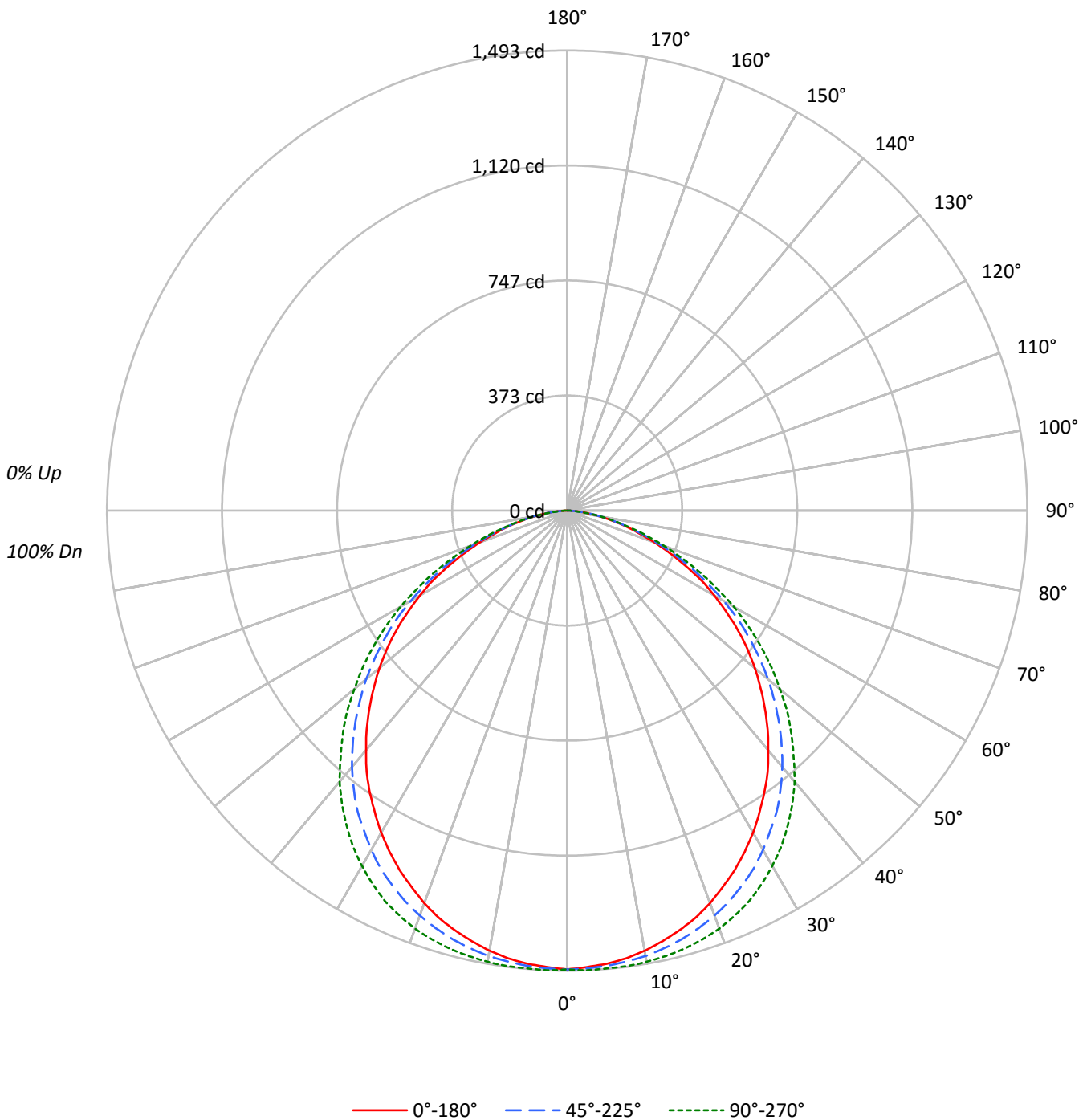
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	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	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	31	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°	4007	4007	4007
5°	3987	4005	4028
10°	3962	4010	4063
15°	3926	4010	4100
20°	3881	4005	4134
25°	3820	3986	4152
30°	3750	3950	4138
35°	3667	3900	4098
40°	3565	3815	4034
45°	3452	3698	3920
50°	3329	3563	3771
55°	3174	3386	3599
60°	2969	3154	3363
65°	2689	2854	3032
70°	2374	2492	2628
75°	2039	2084	2173
80°	1636	1669	1703
85°	1198	1065	1065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	3.5
10°-20°	406.5	10.2
20°-30°	618.2	15.4
30°-40°	739.7	18.5
40°-50°	747.8	18.7
50°-60°	643.5	16.1
60°-70°	444.3	11.1
70°-80°	215.4	5.4
80°-90°	46.7	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°	1165.8	29.1
0°-40°	1905.5	47.6
0°-60°	3296.7	82.4
0°-90°	4003.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4003.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1476	1478	1482	1489	1491	140
15°	1409	1418	1439	1461	1472	398
25°	1286	1302	1342	1383	1398	592
35°	1116	1136	1187	1230	1248	698
45°	907	924	972	1013	1030	700
55°	677	687	722	754	767	603
65°	422	429	448	468	476	420
75°	196	192	200	207	209	208
85°	39	39	34	34	34	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1488.9	1488.9	1488.9	1488.9	1488.9
2.5°	1482.5	1482.5	1486.8	1491.1	1493.2
5°	1476.0	1478.2	1482.5	1488.9	1491.1
7.5°	1465.2	1467.4	1476.0	1486.8	1491.1
10°	1450.1	1454.5	1467.4	1480.3	1486.8
12.5°	1430.8	1439.4	1454.5	1471.7	1480.3
15°	1409.2	1417.8	1439.4	1460.9	1471.7
17.5°	1385.5	1394.1	1420.0	1448.0	1458.8
20°	1355.3	1368.3	1398.4	1430.8	1443.7
22.5°	1320.9	1338.1	1372.6	1407.1	1422.1
25°	1286.4	1301.5	1342.4	1383.3	1398.4
27.5°	1247.6	1264.8	1310.1	1351.0	1366.1
30°	1206.7	1223.9	1271.3	1316.6	1331.6
32.5°	1161.4	1183.0	1228.2	1275.6	1292.8
35°	1116.2	1135.6	1187.3	1230.4	1247.6
37.5°	1068.8	1086.0	1137.7	1183.0	1200.2
40°	1014.9	1034.3	1086.0	1131.2	1148.5
42.5°	963.2	982.6	1030.0	1073.1	1088.1
45°	907.1	924.4	971.8	1012.7	1030.0
47.5°	851.1	870.5	911.5	952.4	969.6
50°	795.1	810.2	851.1	889.9	900.7
52.5°	736.9	749.9	786.5	821.0	836.0
55°	676.6	687.4	721.8	754.2	767.1
57.5°	611.9	624.9	657.2	680.9	696.0
60°	551.6	558.1	586.1	609.8	624.9
62.5°	491.3	493.4	515.0	538.7	547.3
65°	422.3	428.8	448.2	467.6	476.2
67.5°	359.8	366.3	381.4	396.5	402.9
70°	301.7	301.7	316.7	327.5	334.0
72.5°	243.5	245.6	256.4	262.9	269.3
75°	196.1	191.8	200.4	206.9	209.0
77.5°	146.5	144.4	150.8	153.0	157.3
80°	105.6	105.6	107.7	109.9	109.9
82.5°	69.0	69.0	71.1	66.8	64.6
85°	38.8	38.8	34.5	34.5	34.5
87.5°	12.9	12.9	12.9	15.1	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)