

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: P257548

Luminaire Tested: **D3X-WO-44L840-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-44L840-LD5-UNV-22-T1-STD
Description: CORELITE D3X 2X2 LED LUMINAIRE
Light Source: (126) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4434.1 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

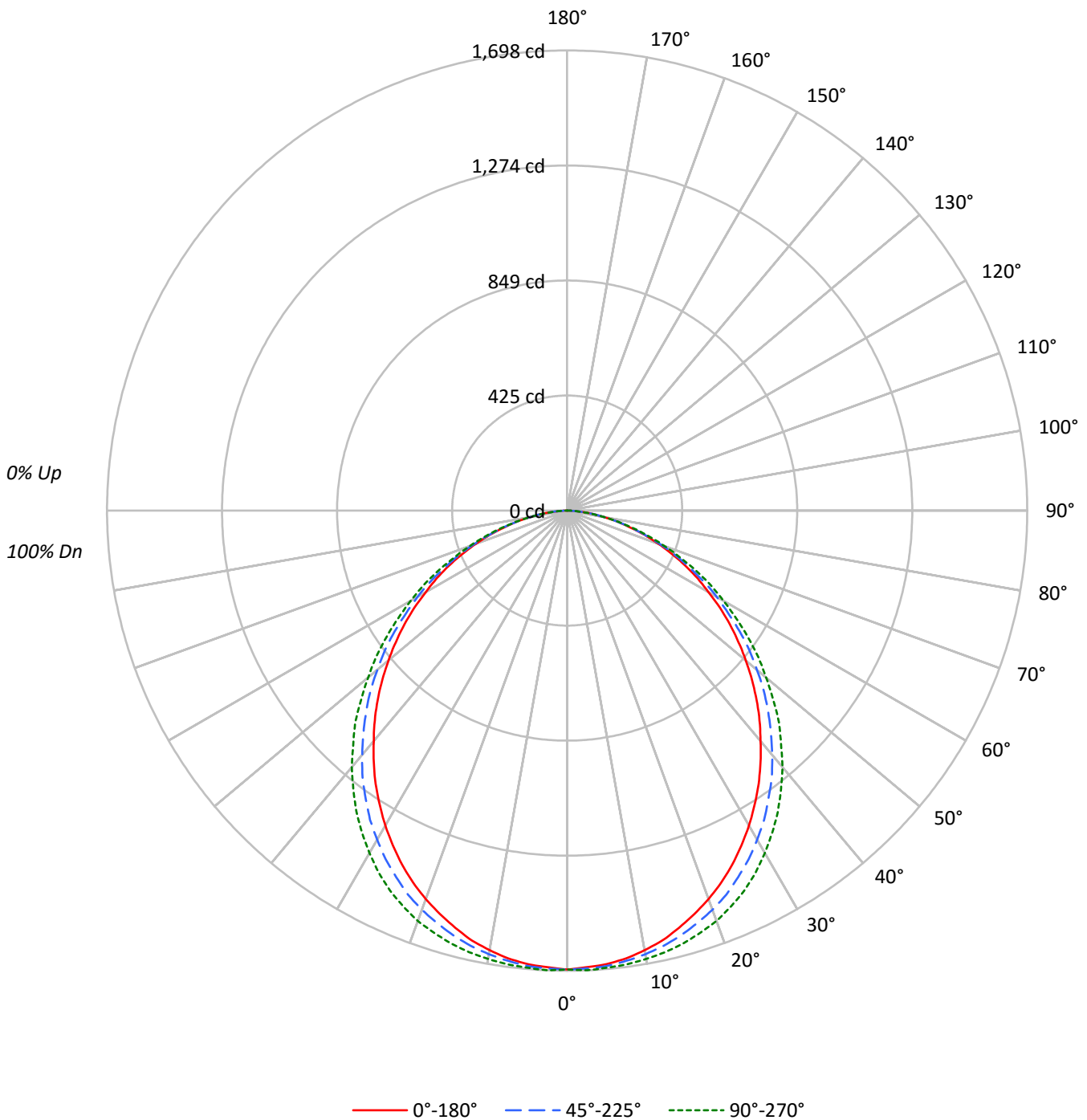
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	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	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4557	4557	4557
5°	4538	4556	4574
10°	4500	4542	4591
15°	4441	4521	4607
20°	4369	4489	4615
25°	4281	4431	4595
30°	4171	4356	4534
35°	4047	4257	4453
40°	3901	4134	4343
45°	3764	3991	4209
50°	3605	3826	4011
55°	3439	3646	3822
60°	3244	3434	3588
65°	3065	3177	3331
70°	2814	2901	3005
75°	2502	2571	2640
80°	2156	2122	2122
85°	1636	1501	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.2	3.6
10°-20°	457.9	10.3
20°-30°	687.4	15.5
30°-40°	809.1	18.2
40°-50°	807.0	18.2
50°-60°	692.5	15.6
60°-70°	496.0	11.2
70°-80°	262.7	5.9
80°-90°	61.4	1.4
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°	1305.5	29.4
0°-40°	2114.5	47.7
0°-60°	3614.0	81.5
0°-90°	4434.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4434.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1693	1693	1693	1693	1693	
5°	1680	1680	1687	1691	1693	159
15°	1594	1601	1623	1645	1654	449
25°	1442	1455	1492	1530	1548	663
35°	1232	1247	1296	1340	1356	769
45°	989	1004	1049	1086	1106	762
55°	733	744	777	804	815	655
65°	481	484	499	519	523	475
75°	241	241	247	252	254	258
85°	53	51	49	44	44	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1693.3	1693.3	1693.3	1693.3	1693.3
2.5°	1686.7	1686.7	1691.1	1695.5	1697.8
5°	1680.1	1680.1	1686.7	1691.1	1693.3
7.5°	1666.8	1666.8	1675.7	1684.5	1688.9
10°	1647.0	1651.4	1662.4	1675.7	1680.1
12.5°	1624.9	1629.3	1644.8	1662.4	1669.1
15°	1594.0	1600.6	1622.7	1644.8	1653.6
17.5°	1560.9	1569.7	1596.2	1622.7	1633.7
20°	1525.6	1534.4	1567.5	1598.4	1611.7
22.5°	1485.8	1496.8	1534.4	1567.5	1580.7
25°	1441.7	1454.9	1492.4	1530.0	1547.6
27.5°	1393.1	1408.5	1450.5	1490.2	1505.7
30°	1342.3	1360.0	1401.9	1443.9	1459.3
32.5°	1287.1	1302.6	1353.3	1393.1	1408.5
35°	1231.9	1247.4	1295.9	1340.1	1355.6
37.5°	1172.3	1192.2	1240.8	1280.5	1295.9
40°	1110.5	1130.4	1176.7	1223.1	1236.3
42.5°	1050.9	1068.5	1112.7	1154.6	1167.9
45°	989.1	1004.5	1048.7	1086.2	1106.1
47.5°	925.0	940.5	984.7	1020.0	1031.0
50°	861.0	876.5	914.0	944.9	958.2
52.5°	797.0	812.4	847.8	876.5	889.7
55°	733.0	744.0	777.1	803.6	814.7
57.5°	668.9	677.8	704.3	733.0	739.6
60°	602.7	613.8	638.0	657.9	666.7
62.5°	543.1	547.5	569.6	587.3	598.3
65°	481.3	483.5	498.9	518.8	523.2
67.5°	417.3	419.5	434.9	446.0	450.4
70°	357.7	357.7	368.7	377.5	381.9
72.5°	300.3	298.0	304.7	313.5	317.9
75°	240.6	240.6	247.3	251.7	253.9
77.5°	189.9	185.5	189.9	194.3	194.3
80°	139.1	136.9	136.9	139.1	136.9
82.5°	94.9	92.7	94.9	90.5	88.3
85°	53.0	50.8	48.6	44.2	44.2
87.5°	17.7	15.5	15.5	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)