

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: P258478

Luminaire Tested: **D3X-WO-31L840-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-31L840-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE
Light Source: (252) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3092.1 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

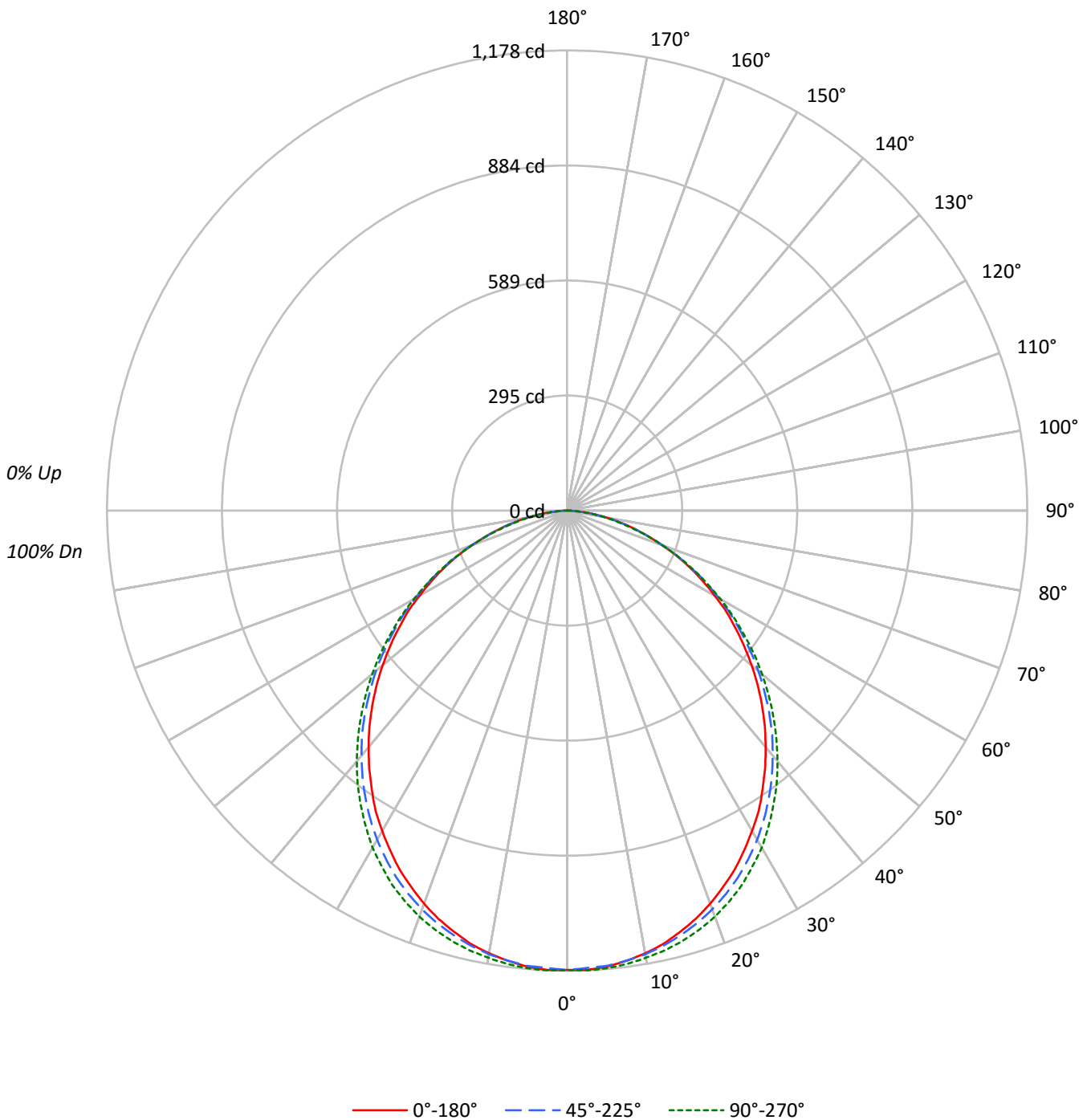
Input Watts (W): 22.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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°	1582	1582	1582
5°	1583	1580	1588
10°	1573	1575	1588
15°	1555	1567	1589
20°	1533	1556	1584
25°	1506	1537	1571
30°	1471	1512	1549
35°	1432	1478	1512
40°	1389	1438	1471
45°	1342	1391	1421
50°	1291	1339	1363
55°	1236	1275	1295
60°	1174	1205	1219
65°	1108	1124	1131
70°	1016	1028	1016
75°	915	910	883
80°	775	767	742
85°	579	563	499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	3.6
10°-20°	318.1	10.3
20°-30°	476.9	15.4
30°-40°	561.6	18.2
40°-50°	561.7	18.2
50°-60°	484.6	15.7
60°-70°	348.7	11.3
70°-80°	185.0	6.0
80°-90°	44.1	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°	906.3	29.3
0°-40°	1467.9	47.5
0°-60°	2514.2	81.3
0°-90°	3092.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3092.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1172	1171	1170	1174	1176	111
15°	1117	1120	1125	1136	1141	315
25°	1014	1021	1035	1053	1058	467
35°	872	882	900	916	921	545
45°	705	714	731	744	747	544
55°	527	532	544	553	552	472
65°	348	349	353	355	355	344
75°	176	174	175	171	170	187
85°	38	38	36	33	32	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.0	1176.0	1176.0	1176.0	1176.0
2.5°	1177.0	1174.9	1171.8	1176.0	1178.1
5°	1171.8	1170.8	1169.7	1173.9	1176.0
7.5°	1162.4	1163.5	1162.4	1168.7	1170.8
10°	1151.0	1152.0	1153.1	1160.4	1162.4
12.5°	1136.4	1137.4	1140.6	1149.9	1153.1
15°	1116.6	1119.7	1124.9	1136.4	1140.6
17.5°	1095.8	1099.9	1107.2	1120.8	1124.9
20°	1070.8	1076.0	1086.4	1101.0	1106.2
22.5°	1042.7	1047.9	1062.4	1078.1	1083.3
25°	1014.5	1020.8	1035.4	1053.1	1058.3
27.5°	981.2	989.5	1005.2	1022.9	1027.0
30°	946.8	954.1	972.9	989.5	996.8
32.5°	912.5	919.7	937.4	954.1	959.3
35°	871.8	882.2	900.0	915.6	920.8
37.5°	832.2	841.6	860.4	876.0	881.2
40°	790.6	798.9	818.7	833.3	837.5
42.5°	748.9	757.3	777.0	788.5	792.7
45°	705.2	714.5	731.2	743.7	746.8
47.5°	661.4	668.7	684.3	695.8	700.0
50°	616.6	623.9	639.5	648.9	651.0
52.5°	571.8	577.1	591.6	600.0	603.1
55°	527.1	532.3	543.7	553.1	552.1
57.5°	484.3	486.4	497.9	504.1	504.1
60°	436.4	438.5	447.9	452.1	453.1
62.5°	391.6	394.8	402.1	403.1	403.1
65°	347.9	348.9	353.1	355.2	355.2
67.5°	304.2	303.1	307.3	307.3	306.2
70°	258.3	260.4	261.4	259.4	258.3
72.5°	216.7	215.6	215.6	214.6	214.6
75°	176.0	173.9	175.0	170.8	169.8
77.5°	138.5	135.4	134.4	132.3	130.2
80°	100.0	100.0	99.0	96.9	95.8
82.5°	66.7	66.7	65.6	63.5	61.5
85°	37.5	37.5	36.5	33.3	32.3
87.5°	12.5	12.5	12.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)