

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: P257331

Luminaire Tested: **D3X-WD-40L840-LD5-UNV-14-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-40L840-LD5-UNV-14-T1-STD
Description: CORELITE D3X 1X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (112) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4002.1 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

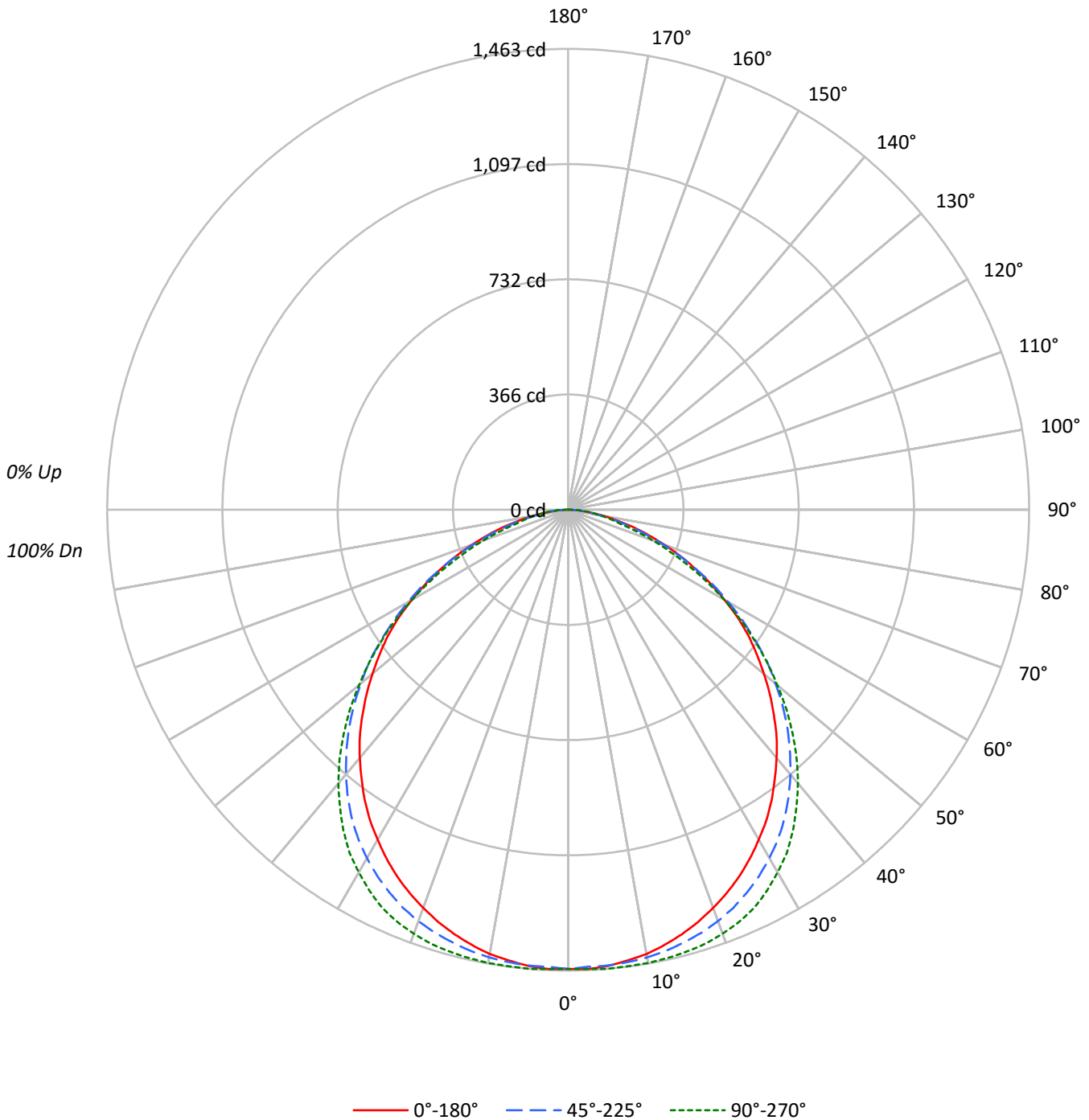
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3923	3923	3923
5°	3928	3923	3952
10°	3915	3944	3993
15°	3887	3962	4046
20°	3852	3980	4103
25°	3814	3983	4143
30°	3758	3969	4130
35°	3697	3932	4085
40°	3615	3853	3985
45°	3515	3746	3835
50°	3395	3597	3627
55°	3277	3403	3386
60°	3086	3154	3077
65°	2844	2855	2696
70°	2544	2488	2263
75°	2210	2062	1746
80°	1771	1605	1605
85°	1269	1488	1544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	3.5
10°-20°	402.4	10.1
20°-30°	617.9	15.4
30°-40°	744.1	18.6
40°-50°	752.0	18.8
50°-60°	641.4	16.0
60°-70°	439.1	11.0
70°-80°	211.9	5.3
80°-90°	54.6	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°	1158.9	29.0
0°-40°	1903.1	47.6
0°-60°	3296.5	82.4
0°-90°	4002.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4002.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1454	1454	1452	1461	1463	138
15°	1395	1406	1422	1447	1452	394
25°	1284	1304	1342	1381	1395	591
35°	1126	1150	1197	1234	1243	703
45°	924	949	984	1008	1008	712
55°	698	711	725	729	722	622
65°	447	452	448	432	423	443
75°	213	213	198	175	168	226
85°	41	45	48	50	50	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1457.7	1457.7	1457.7	1457.7	1457.7
2.5°	1459.5	1457.7	1452.4	1459.5	1459.5
5°	1454.2	1454.2	1452.4	1461.3	1463.1
7.5°	1443.4	1447.0	1448.8	1459.5	1461.3
10°	1432.7	1436.3	1443.4	1457.7	1461.3
12.5°	1414.9	1422.0	1434.5	1454.2	1457.7
15°	1395.2	1405.9	1422.0	1447.0	1452.4
17.5°	1372.0	1386.3	1407.7	1436.3	1445.2
20°	1345.2	1361.3	1389.9	1422.0	1432.7
22.5°	1316.6	1334.5	1368.4	1405.9	1416.6
25°	1284.5	1304.1	1341.6	1380.9	1395.2
27.5°	1248.7	1270.2	1311.2	1352.3	1364.8
30°	1209.4	1232.6	1277.3	1318.4	1329.1
32.5°	1170.1	1193.3	1239.8	1279.1	1291.6
35°	1125.5	1150.5	1196.9	1234.4	1243.4
37.5°	1077.2	1102.2	1148.7	1186.2	1189.8
40°	1029.0	1054.0	1096.9	1130.8	1134.4
42.5°	979.0	1002.2	1041.5	1070.1	1073.7
45°	923.6	948.6	984.3	1007.6	1007.6
47.5°	868.2	893.2	923.6	939.7	939.7
50°	811.0	834.3	859.3	868.2	866.4
52.5°	753.9	775.3	796.8	798.5	795.0
55°	698.5	711.0	725.3	728.9	721.7
57.5°	637.8	648.5	657.4	652.1	646.7
60°	573.4	584.2	586.0	577.0	571.7
62.5°	510.9	519.9	519.9	505.6	496.6
65°	446.6	452.0	448.4	432.3	423.4
67.5°	385.9	389.4	382.3	366.2	351.9
70°	323.3	325.1	316.2	296.5	287.6
72.5°	266.2	268.0	257.2	234.0	223.3
75°	212.6	212.6	198.3	175.1	167.9
77.5°	159.0	164.4	148.3	135.8	135.8
80°	114.3	119.7	103.6	105.4	103.6
82.5°	75.0	80.4	75.0	75.0	75.0
85°	41.1	44.7	48.2	50.0	50.0
87.5°	12.5	21.4	23.2	25.0	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)