

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: P257577

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-40L840-LD5-UNV-14-T1-STD
Description: CORELITE D3X 1X4 LED LUMINAIRE
Light Source: (112) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4214.7 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

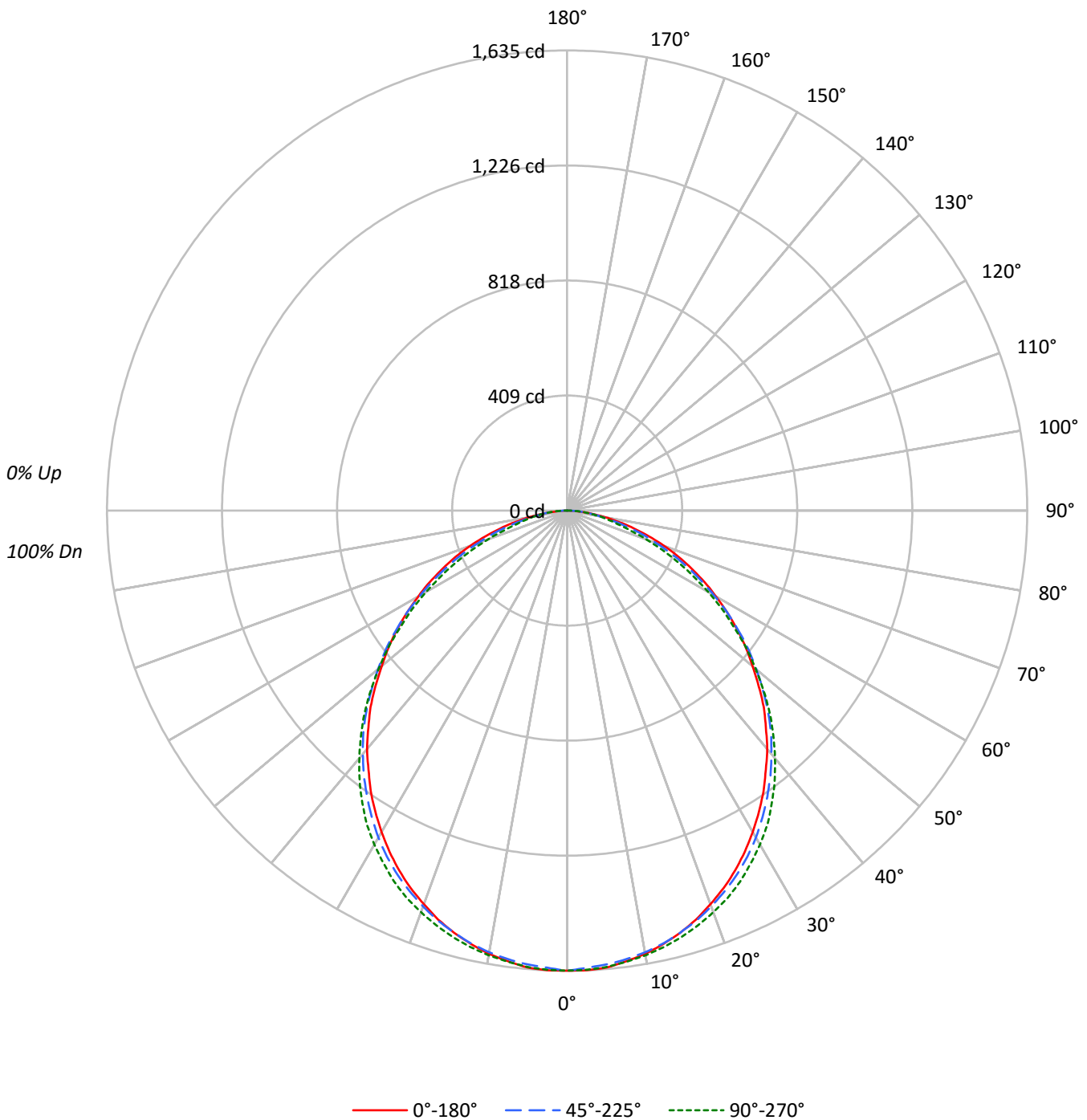
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	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	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4399	4399	4399
5°	4401	4372	4397
10°	4369	4354	4384
15°	4325	4325	4370
20°	4262	4288	4349
25°	4191	4238	4318
30°	4097	4169	4258
35°	3997	4073	4167
40°	3885	3966	4036
45°	3760	3841	3876
50°	3597	3672	3657
55°	3462	3487	3395
60°	3288	3240	3116
65°	3105	2981	2776
70°	2881	2643	2348
75°	2563	2267	1932
80°	2132	1855	1799
85°	1544	1655	1655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	3.7
10°-20°	439.5	10.4
20°-30°	658.6	15.6
30°-40°	776.0	18.4
40°-50°	774.0	18.4
50°-60°	658.3	15.6
60°-70°	459.5	10.9
70°-80°	233.6	5.5
80°-90°	61.0	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°	1252.4	29.7
0°-40°	2028.4	48.1
0°-60°	3460.7	82.1
0°-90°	4214.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4214.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1635	1635	1635	1635	1635	
5°	1629	1626	1619	1628	1628	154
15°	1552	1552	1552	1567	1569	438
25°	1411	1413	1428	1449	1454	650
35°	1217	1218	1240	1265	1268	760
45°	988	992	1009	1017	1018	760
55°	738	738	743	732	724	659
65°	488	481	468	443	436	484
75°	246	238	218	191	186	262
85°	50	52	54	54	54	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1634.7	1634.7	1634.7	1634.7	1634.7
2.5°	1634.7	1632.9	1625.8	1632.9	1632.9
5°	1629.4	1625.8	1618.6	1627.6	1627.6
7.5°	1615.1	1613.3	1607.9	1616.9	1616.9
10°	1599.0	1597.2	1593.6	1604.4	1604.4
12.5°	1577.6	1577.6	1575.8	1586.5	1588.3
15°	1552.5	1552.5	1552.5	1566.8	1568.6
17.5°	1524.0	1522.2	1527.5	1543.6	1545.4
20°	1488.2	1490.0	1497.2	1515.0	1518.6
22.5°	1452.5	1454.3	1463.2	1484.7	1490.0
25°	1411.4	1413.2	1427.5	1448.9	1454.3
27.5°	1366.7	1370.3	1386.4	1409.6	1413.2
30°	1318.5	1322.1	1341.7	1364.9	1370.3
32.5°	1268.5	1273.8	1291.7	1316.7	1323.9
35°	1216.7	1218.5	1239.9	1264.9	1268.5
37.5°	1159.5	1164.9	1186.3	1207.7	1211.3
40°	1105.9	1109.5	1129.1	1147.0	1148.8
42.5°	1045.2	1050.5	1072.0	1084.5	1084.5
45°	988.0	991.6	1009.4	1016.6	1018.4
47.5°	923.7	927.2	943.3	946.9	946.9
50°	859.3	868.3	877.2	877.2	873.6
52.5°	800.4	802.2	812.9	805.7	802.2
55°	737.9	737.9	743.2	732.5	723.6
57.5°	675.3	675.3	675.3	661.0	653.9
60°	611.0	609.2	602.1	584.2	578.9
62.5°	550.3	544.9	534.2	516.3	505.6
65°	487.7	480.6	468.1	443.1	435.9
67.5°	428.8	416.3	402.0	378.8	366.2
70°	366.2	355.5	335.9	309.1	298.4
72.5°	305.5	294.8	278.7	251.9	235.8
75°	246.5	237.6	218.0	191.2	185.8
77.5°	189.4	184.0	164.4	151.9	150.1
80°	137.6	135.8	119.7	116.1	116.1
82.5°	91.1	89.3	84.0	84.0	82.2
85°	50.0	51.8	53.6	53.6	53.6
87.5°	17.9	21.4	25.0	25.0	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)