

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: P258419

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-31L840-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (252) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2907.8 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

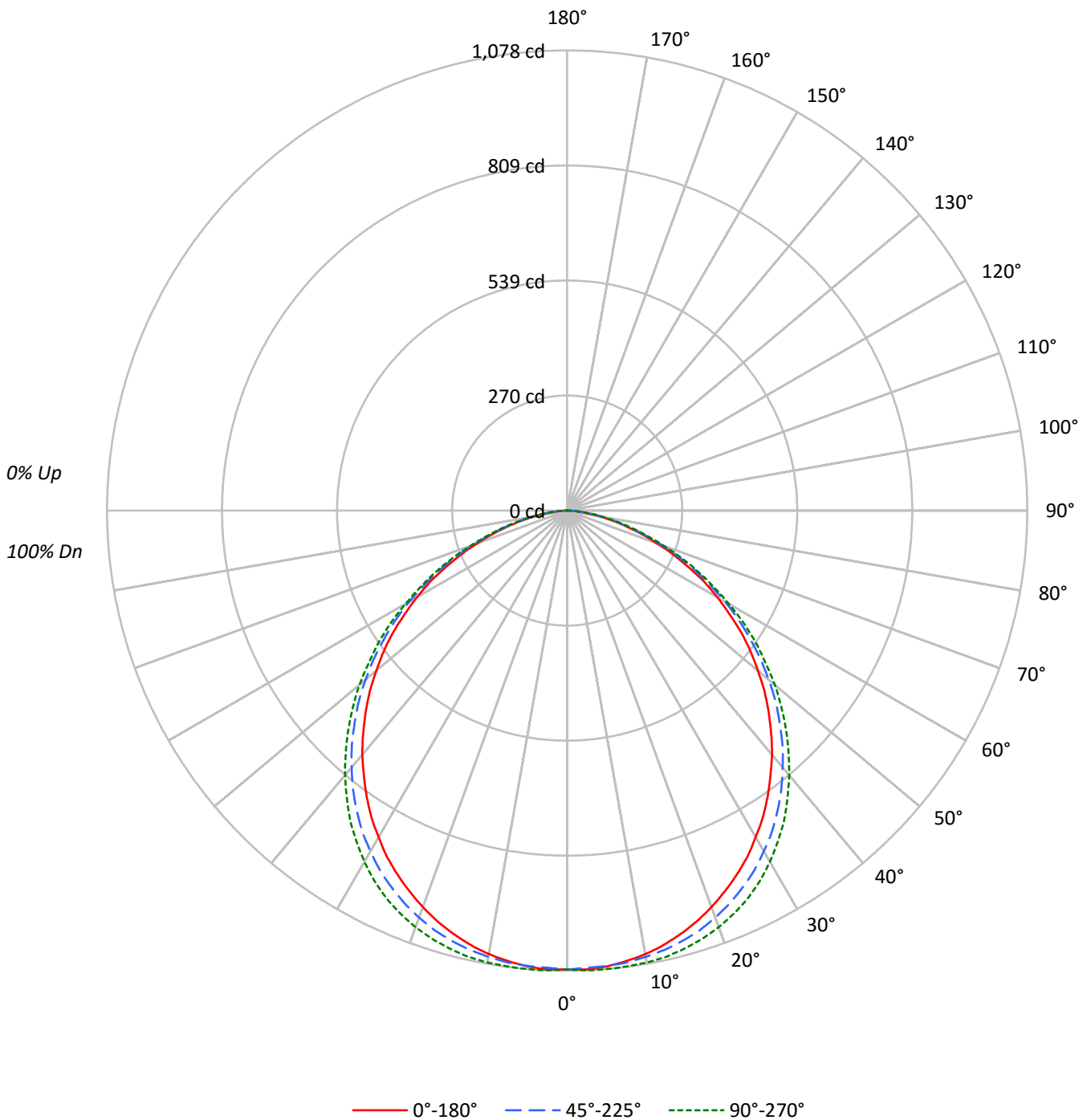
Input Watts (W): 22.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258419

CATALOG NUMBER: D3X-WG-31L840-LD5-UNV-24-T1-STD

Luminous Intensity Polar Plot





TEST NUMBER: P258419

CATALOG NUMBER: D3X-WG-31L840-LD5-UNV-24-T1-STD

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	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	47	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	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1446	1446	1446
5°	1448	1446	1456
10°	1442	1450	1469
15°	1431	1454	1480
20°	1415	1453	1487
25°	1396	1446	1488
30°	1372	1432	1476
35°	1345	1411	1456
40°	1312	1379	1421
45°	1271	1340	1380
50°	1221	1291	1330
55°	1168	1227	1266
60°	1093	1149	1177
65°	998	1051	1078
70°	877	922	947
75°	742	780	807
80°	589	645	662
85°	401	482	466



TEST NUMBER: P258419

CATALOG NUMBER: D3X-WG-31L840-LD5-UNV-24-T1-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	3.5
10°-20°	294.9	10.1
20°-30°	448.1	15.4
30°-40°	534.7	18.4
40°-50°	540.1	18.6
50°-60°	465.3	16.0
60°-70°	324.4	11.2
70°-80°	160.7	5.5
80°-90°	37.5	1.3
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°	845.1	29.1
0°-40°	1379.8	47.5
0°-60°	2385.2	82.0
0°-90°	2907.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2907.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1075	1075	1075	1075	1075	
5°	1072	1071	1071	1076	1078	102
15°	1027	1032	1044	1057	1062	290
25°	941	953	974	994	1002	433
35°	819	832	859	879	886	512
45°	668	682	704	721	725	515
55°	498	508	523	535	540	444
65°	314	320	330	333	338	311
75°	143	145	150	153	155	154
85°	26	31	31	29	30	33
90°	0	0	0	0	0	



TEST NUMBER: P258419

CATALOG NUMBER: D3X-WG-31L840-LD5-UNV-24-T1-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1074.9	1074.9	1074.9	1074.9	1074.9
2.5°	1076.0	1073.9	1071.8	1076.0	1078.1
5°	1071.8	1070.8	1070.8	1076.0	1078.1
7.5°	1064.5	1064.5	1067.7	1074.9	1077.0
10°	1055.2	1057.2	1061.4	1071.8	1074.9
12.5°	1042.7	1046.8	1054.1	1066.6	1070.8
15°	1027.0	1032.2	1043.7	1057.2	1062.4
17.5°	1009.3	1016.6	1031.2	1046.8	1052.0
20°	988.5	997.9	1014.5	1032.2	1038.5
22.5°	965.6	977.0	995.8	1014.5	1021.8
25°	940.6	953.1	973.9	993.7	1002.0
27.5°	914.5	927.0	949.9	969.7	978.1
30°	883.3	897.9	921.8	942.7	949.9
32.5°	853.1	867.7	892.7	911.4	918.7
35°	818.7	832.2	859.3	879.1	886.4
37.5°	782.3	797.9	823.9	841.6	847.9
40°	746.8	760.4	785.4	803.1	809.3
42.5°	707.3	721.8	746.8	762.5	767.7
45°	667.7	682.3	704.1	720.8	725.0
47.5°	627.1	640.6	662.5	676.0	680.2
50°	583.3	595.8	616.6	630.2	635.4
52.5°	541.6	553.1	570.8	582.3	585.4
55°	497.9	508.3	522.9	535.4	539.6
57.5°	451.0	462.5	476.0	486.4	489.6
60°	406.2	415.6	427.1	436.4	437.5
62.5°	362.5	366.6	377.1	385.4	386.4
65°	313.5	319.8	330.2	333.3	338.5
67.5°	268.7	272.9	281.2	285.4	289.6
70°	222.9	226.0	234.4	239.6	240.6
72.5°	183.3	184.4	190.6	194.8	195.8
75°	142.7	144.8	150.0	153.1	155.2
77.5°	108.3	110.4	114.6	116.7	116.7
80°	76.0	79.2	83.3	84.4	85.4
82.5°	49.0	53.1	56.2	57.3	55.2
85°	26.0	31.2	31.2	29.2	30.2
87.5°	9.4	11.5	12.5	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)