

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: P257442

Luminaire Tested: **D3X-WG-31L840-LD5-UNV-14-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
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-14-T1-STD
Description: CORELITE D3X 1X4 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (112) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3102.3 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

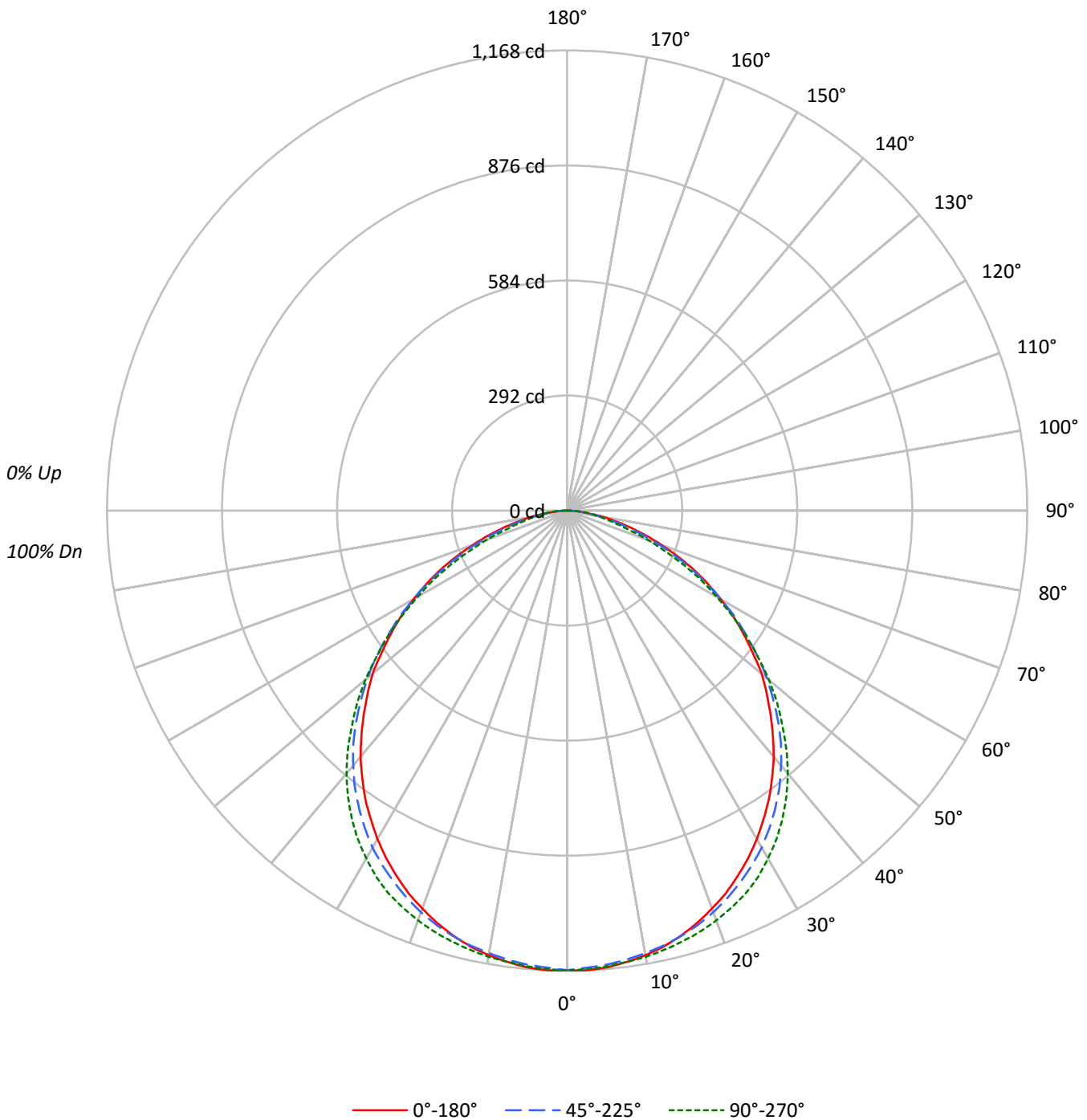
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3140	3140	3140
5°	3144	3125	3137
10°	3131	3116	3143
15°	3111	3115	3154
20°	3079	3107	3170
25°	3040	3089	3184
30°	2992	3069	3168
35°	2935	3026	3131
40°	2865	2968	3060
45°	2777	2883	2941
50°	2701	2770	2799
55°	2564	2616	2603
60°	2427	2427	2359
65°	2253	2199	2076
70°	1998	1910	1725
75°	1731	1572	1327
80°	1420	1226	1204
85°	942	1115	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	3.6
10°-20°	316.6	10.2
20°-30°	481.3	15.5
30°-40°	576.2	18.6
40°-50°	581.2	18.7
50°-60°	495.0	16.0
60°-70°	338.5	10.9
70°-80°	162.1	5.2
80°-90°	41.1	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°	908.2	29.3
0°-40°	1484.4	47.8
0°-60°	2560.7	82.5
0°-90°	3102.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3102.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1167	1167	1167	1167	1167	
5°	1164	1162	1157	1162	1161	110
15°	1117	1114	1118	1131	1132	315
25°	1024	1025	1040	1064	1072	472
35°	893	896	921	948	953	558
45°	730	735	758	773	773	563
55°	547	549	558	559	555	489
65°	354	347	345	333	326	349
75°	166	164	151	132	128	178
85°	30	33	36	38	39	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166.7	1166.7	1166.7	1166.7	1166.7
2.5°	1168.1	1166.7	1161.2	1166.7	1165.3
5°	1163.9	1162.5	1157.0	1162.5	1161.2
7.5°	1155.6	1154.2	1150.1	1155.6	1155.6
10°	1145.9	1143.1	1140.3	1148.7	1150.1
12.5°	1133.4	1130.6	1130.6	1140.3	1141.7
15°	1116.8	1114.0	1118.2	1130.6	1132.0
17.5°	1097.3	1096.0	1102.9	1118.2	1120.9
20°	1075.1	1073.8	1084.9	1102.9	1107.1
22.5°	1051.6	1051.6	1064.0	1084.9	1090.4
25°	1023.8	1025.2	1040.5	1064.0	1072.4
27.5°	994.7	997.5	1015.5	1041.9	1048.8
30°	962.8	966.9	987.7	1012.7	1019.7
32.5°	928.1	932.3	955.8	982.2	989.1
35°	893.4	896.2	921.2	947.5	953.1
37.5°	854.6	858.7	885.1	908.7	914.2
40°	815.7	819.9	844.9	867.1	871.2
42.5°	772.7	778.3	803.2	821.3	824.0
45°	729.7	735.3	757.5	772.7	772.7
47.5°	686.7	689.5	708.9	724.2	722.8
50°	645.1	643.7	661.7	668.7	668.7
52.5°	593.8	597.9	610.4	614.6	610.4
55°	546.6	549.4	557.7	559.1	554.9
57.5°	500.8	499.4	506.4	502.2	496.6
60°	450.9	450.9	450.9	446.7	438.4
62.5°	402.3	399.5	398.2	388.4	384.3
65°	353.8	346.8	345.4	332.9	326.0
67.5°	302.4	299.7	292.7	280.2	267.7
70°	253.9	251.1	242.8	227.5	219.2
72.5°	209.5	206.7	195.6	177.6	166.5
75°	166.5	163.7	151.2	131.8	127.6
77.5°	126.2	124.9	112.4	102.7	101.3
80°	91.6	90.2	79.1	79.1	77.7
82.5°	58.3	58.3	55.5	56.9	58.3
85°	30.5	33.3	36.1	37.5	38.8
87.5°	9.7	15.3	18.0	19.4	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)