

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: P257563

Luminaire Tested: **D3X-WO-31L830-LD5-UNV-14-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257563
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-31L830-LD5-UNV-14-T1-STD
Description: CORELITE D3X 1X4 LED LUMINAIRE
Light Source: (112) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3141.9 lumens
Efficiency: N/A
Efficacy: 102.7 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

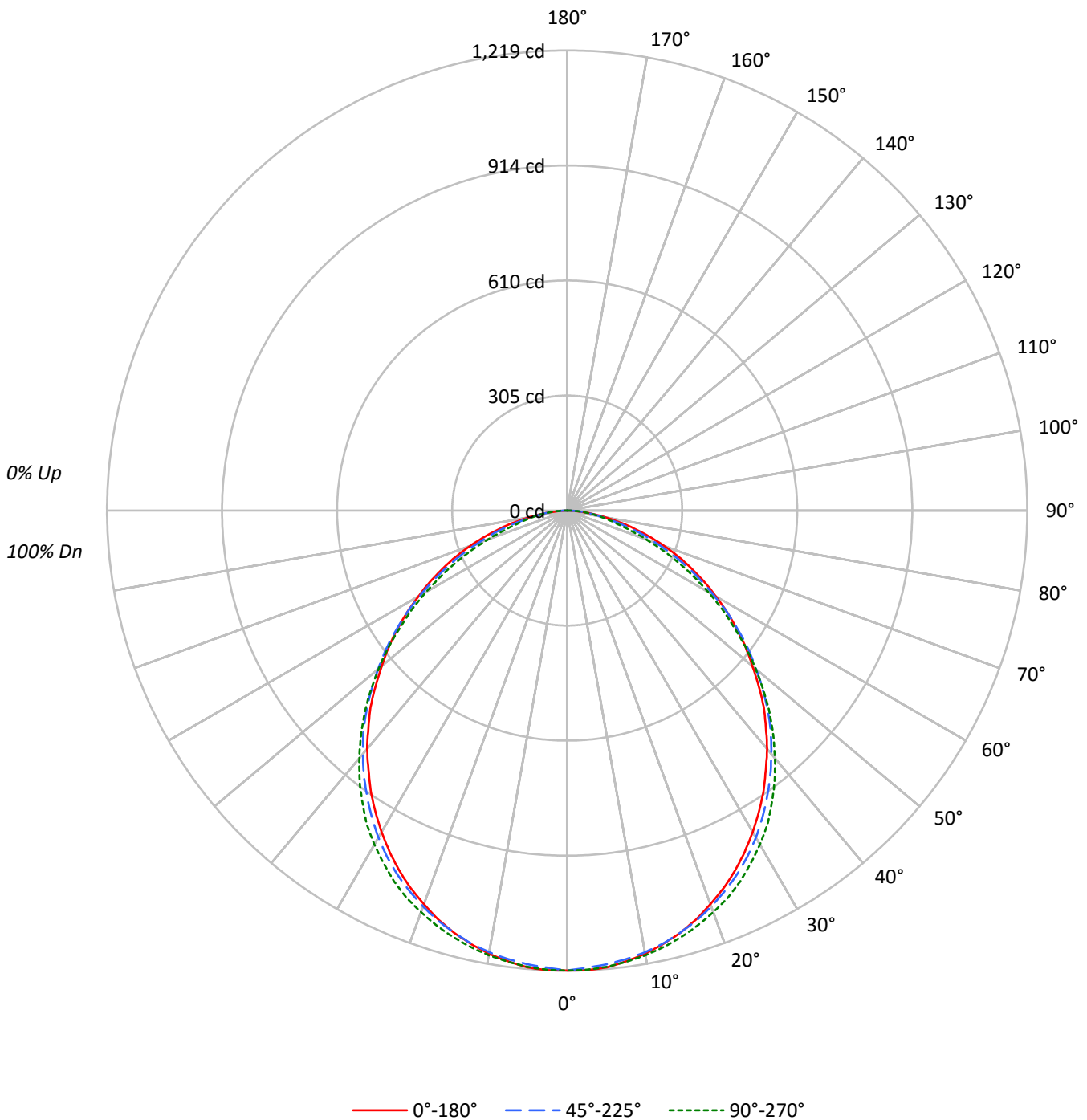
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3279	3279	3279
5°	3281	3259	3277
10°	3257	3246	3268
15°	3224	3224	3258
20°	3177	3196	3242
25°	3124	3159	3219
30°	3054	3108	3174
35°	2980	3036	3106
40°	2896	2957	3008
45°	2803	2864	2889
50°	2682	2737	2727
55°	2580	2599	2531
60°	2451	2415	2322
65°	2315	2222	2069
70°	2148	1970	1750
75°	1911	1690	1440
80°	1590	1382	1342
85°	1152	1235	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	3.7
10°-20°	327.6	10.4
20°-30°	491.0	15.6
30°-40°	578.5	18.4
40°-50°	577.0	18.4
50°-60°	490.8	15.6
60°-70°	342.5	10.9
70°-80°	174.1	5.5
80°-90°	45.5	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°	933.6	29.7
0°-40°	1512.1	48.1
0°-60°	2579.8	82.1
0°-90°	3141.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3141.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1215	1212	1207	1213	1213	115
15°	1157	1157	1157	1168	1169	326
25°	1052	1054	1064	1080	1084	484
35°	907	908	924	943	946	567
45°	736	739	752	758	759	567
55°	550	550	554	546	539	491
65°	364	358	349	330	325	361
75°	184	177	162	142	138	195
85°	37	39	40	40	40	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1218.6	1218.6	1218.6	1218.6	1218.6
2.5°	1218.6	1217.3	1212.0	1217.3	1217.3
5°	1214.6	1212.0	1206.6	1213.3	1213.3
7.5°	1204.0	1202.6	1198.6	1205.3	1205.3
10°	1192.0	1190.7	1188.0	1196.0	1196.0
12.5°	1176.0	1176.0	1174.7	1182.7	1184.0
15°	1157.4	1157.4	1157.4	1168.0	1169.3
17.5°	1136.1	1134.7	1138.7	1150.7	1152.0
20°	1109.4	1110.7	1116.1	1129.4	1132.1
22.5°	1082.8	1084.1	1090.8	1106.8	1110.7
25°	1052.1	1053.5	1064.1	1080.1	1084.1
27.5°	1018.9	1021.5	1033.5	1050.8	1053.5
30°	982.9	985.6	1000.2	1017.5	1021.5
32.5°	945.6	949.6	962.9	981.6	986.9
35°	907.0	908.3	924.3	942.9	945.6
37.5°	864.4	868.4	884.3	900.3	903.0
40°	824.4	827.1	841.7	855.0	856.4
42.5°	779.1	783.1	799.1	808.4	808.4
45°	736.5	739.2	752.5	757.8	759.1
47.5°	688.6	691.2	703.2	705.9	705.9
50°	640.6	647.3	653.9	653.9	651.3
52.5°	596.7	598.0	606.0	600.7	598.0
55°	550.0	550.0	554.0	546.1	539.4
57.5°	503.4	503.4	503.4	492.8	487.5
60°	455.5	454.2	448.8	435.5	431.5
62.5°	410.2	406.2	398.2	384.9	376.9
65°	363.6	358.3	348.9	330.3	325.0
67.5°	319.6	310.3	299.7	282.3	273.0
70°	273.0	265.0	250.4	230.4	222.4
72.5°	227.7	219.8	207.8	187.8	175.8
75°	183.8	177.1	162.5	142.5	138.5
77.5°	141.2	137.2	122.5	113.2	111.9
80°	102.6	101.2	89.2	86.6	86.6
82.5°	67.9	66.6	62.6	62.6	61.3
85°	37.3	38.6	40.0	40.0	40.0
87.5°	13.3	16.0	18.6	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)