

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: G3-1806-819-9

Luminaire Tested: **D3X-WG-31L830-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: G3-1806-819-9  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-31L830-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF  
Light Source: (252) 3000 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2791.6 lumens  
Efficiency: N/A  
Efficacy: 125.7 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

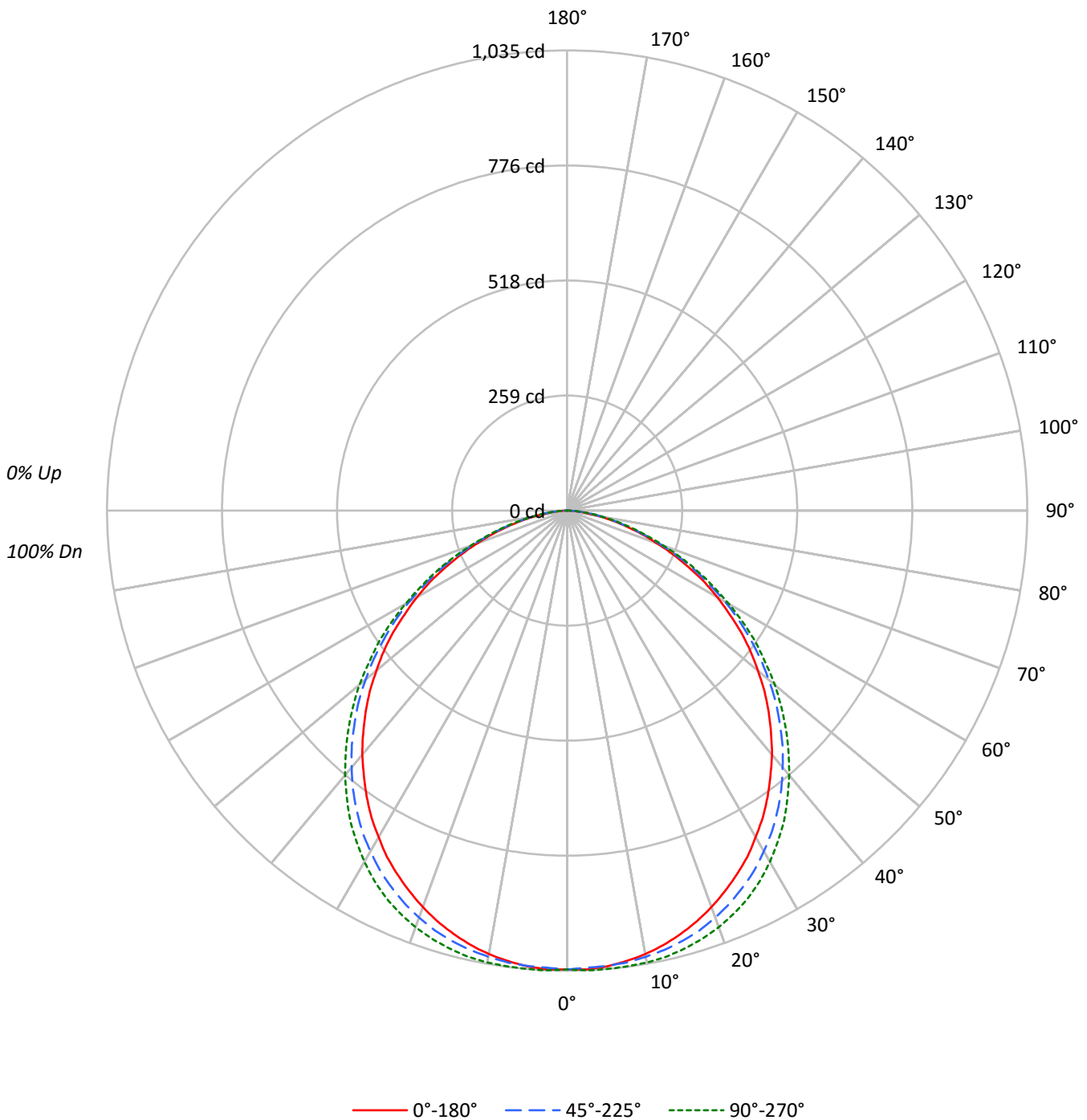
Input Watts (W): 22.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1389	1389	1389
5°	1390	1388	1398
10°	1384	1392	1410
15°	1373	1396	1421
20°	1359	1395	1428
25°	1341	1388	1428
30°	1317	1375	1417
35°	1291	1355	1398
40°	1259	1324	1365
45°	1220	1286	1324
50°	1172	1239	1277
55°	1121	1178	1215
60°	1049	1103	1130
65°	958	1009	1035
70°	842	885	909
75°	712	749	775
80°	566	620	635
85°	386	463	448



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	3.5
10°-20°	283.1	10.1
20°-30°	430.2	15.4
30°-40°	513.4	18.4
40°-50°	518.5	18.6
50°-60°	446.7	16.0
60°-70°	311.4	11.2
70°-80°	154.3	5.5
80°-90°	36.0	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°	811.4	29.1
0°-40°	1324.7	47.5
0°-60°	2289.9	82.0
0°-90°	2791.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2791.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	1029	1028	1028	1033	1035	98
15°	986	991	1002	1015	1020	278
25°	903	915	935	954	962	416
35°	786	799	825	844	851	491
45°	641	655	676	692	696	494
55°	478	488	502	514	518	426
65°	301	307	317	320	325	299
75°	137	139	144	147	149	148
85°	25	30	30	28	29	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1032	1032	1032	1032	1032
2.5°	1033	1031	1029	1033	1035
5°	1029	1028	1028	1033	1035
7.5°	1022	1022	1025	1032	1034
10°	1013	1015	1019	1029	1032
12.5°	1001	1005	1012	1024	1028
15°	986	991	1002	1015	1020
17.5°	969	976	990	1005	1010
20°	949	958	974	991	997
22.5°	927	938	956	974	981
25°	903	915	935	954	962
27.5°	878	890	912	931	939
30°	848	862	885	905	912
32.5°	819	833	857	875	882
35°	786	799	825	844	851
37.5°	751	766	791	808	814
40°	717	730	754	771	777
42.5°	679	693	717	732	737
45°	641	655	676	692	696
47.5°	602	615	636	649	653
50°	560	572	592	605	610
52.5°	520	531	548	559	562
55°	478	488	502	514	518
57.5°	433	444	457	467	470
60°	390	399	410	419	420
62.5°	348	352	362	370	371
65°	301	307	317	320	325
67.5°	258	262	270	274	278
70°	214	217	225	230	231
72.5°	176	177	183	187	188
75°	137	139	144	147	149
77.5°	104	106	110	112	112
80°	73	76	80	81	82
82.5°	47	51	54	55	53
85°	25	30	30	28	29
87.5°	9	11	12	13	13
90°	0	0	0	0	0

(END OF REPORT)