

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: P257407

Luminaire Tested: **D3X-WG-31L840-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
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-22-T1-STD
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (126) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2973.5 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

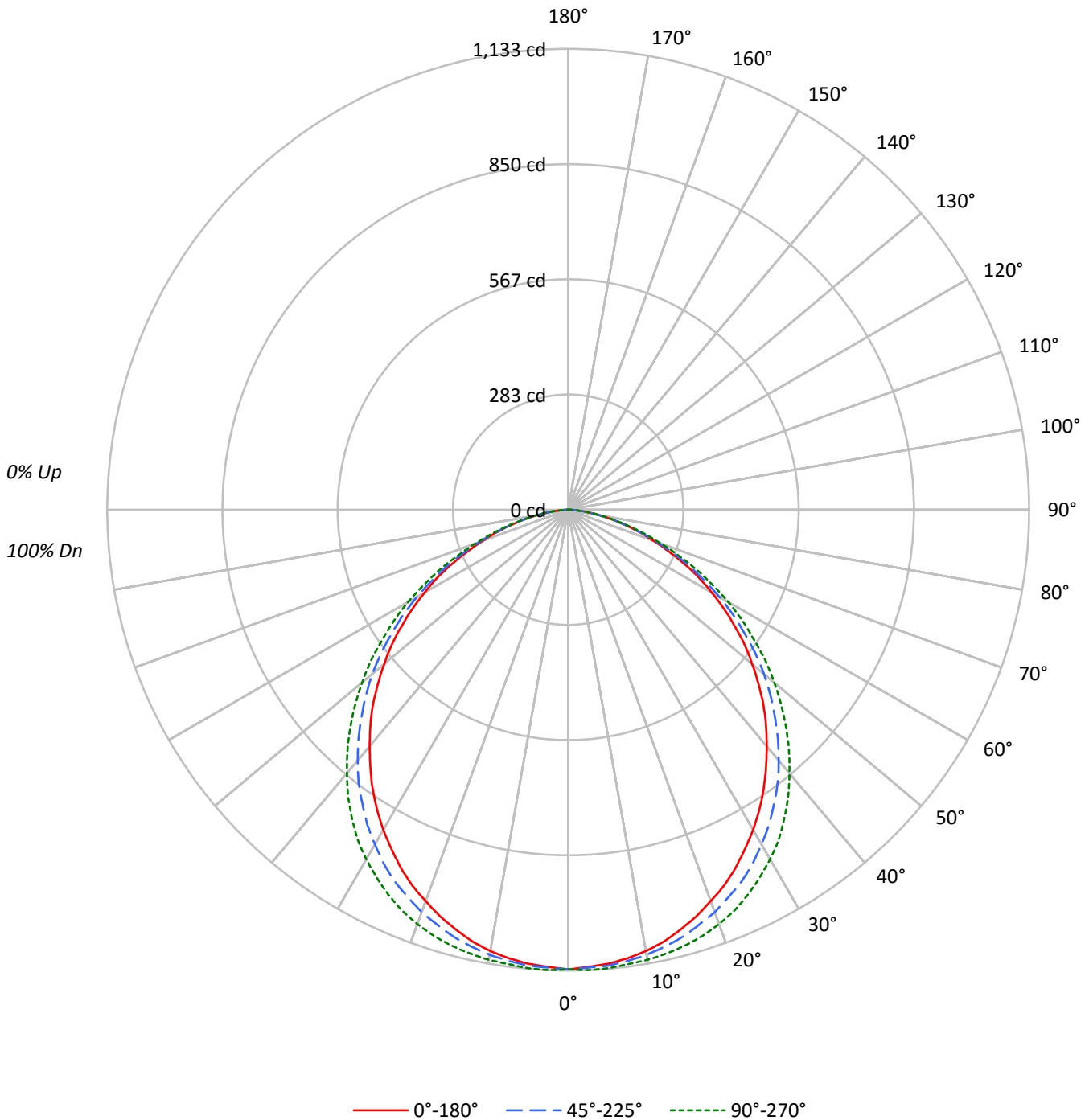
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	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	47	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	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3041	3041	3041
5°	3027	3040	3057
10°	3010	3036	3071
15°	2976	3029	3091
20°	2933	3015	3105
25°	2887	2994	3102
30°	2825	2952	3085
35°	2753	2898	3043
40°	2667	2827	2971
45°	2582	2733	2883
50°	2471	2629	2768
55°	2347	2480	2614
60°	2192	2310	2446
65°	2000	2090	2211
70°	1751	1825	1900
75°	1493	1526	1592
80°	1198	1223	1247
85°	877	827	781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.6
10°-20°	307.0	10.3
20°-30°	464.1	15.6
30°-40°	551.2	18.5
40°-50°	553.4	18.6
50°-60°	472.7	15.9
60°-70°	325.7	11.0
70°-80°	157.9	5.3
80°-90°	34.6	1.2
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°	878.0	29.5
0°-40°	1429.2	48.1
0°-60°	2455.3	82.6
0°-90°	2973.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2973.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1120	1120	1125	1128	1132	106
15°	1068	1073	1087	1102	1110	301
25°	972	980	1008	1035	1045	447
35°	838	851	882	915	926	523
45°	679	688	718	748	758	522
55°	500	508	529	551	557	447
65°	314	314	328	342	347	311
75°	144	140	147	150	153	154
85°	28	28	27	25	25	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1130.0	1130.0	1130.0	1130.0	<i>1130.0</i>
2.5°	<i>1125.3</i>	<i>1125.3</i>	<i>1126.8</i>	<i>1131.6</i>	<i>1133.1</i>
5°	1120.5	1120.5	1125.3	1128.4	<i>1131.6</i>
7.5°	1112.6	1114.2	1118.9	1125.3	<i>1126.8</i>
10°	1101.6	1103.2	1111.0	1118.9	<i>1123.7</i>
12.5°	1087.4	1090.5	1100.0	1112.6	<i>1117.4</i>
15°	1068.4	1073.2	1087.4	1101.6	<i>1109.5</i>
17.5°	1047.9	1054.2	1070.0	1090.5	<i>1098.4</i>
20°	1024.2	1032.1	1052.7	1074.7	<i>1084.2</i>
22.5°	1000.6	1006.9	1030.6	1055.8	<i>1066.9</i>
25°	972.2	980.1	1008.5	1035.3	<i>1044.8</i>
27.5°	940.6	951.7	981.6	1010.0	<i>1019.5</i>
30°	909.0	918.5	950.1	981.6	<i>992.7</i>
32.5°	874.3	883.8	918.5	950.1	<i>962.7</i>
35°	838.0	850.6	882.2	915.4	<i>926.4</i>
37.5°	798.6	812.8	845.9	874.3	<i>888.5</i>
40°	759.1	771.7	804.9	834.9	<i>845.9</i>
42.5°	719.7	730.7	762.3	793.8	<i>803.3</i>
45°	678.6	688.1	718.1	748.1	<i>757.5</i>
47.5°	634.4	645.5	673.9	699.1	<i>710.2</i>
50°	590.2	601.3	628.1	651.8	<i>661.3</i>
52.5°	547.6	553.9	579.2	601.3	<i>612.3</i>
55°	500.3	508.2	528.7	550.8	<i>557.1</i>
57.5°	454.5	459.3	479.8	498.7	<i>508.2</i>
60°	407.2	410.3	429.3	443.5	<i>454.5</i>
62.5°	363.0	363.0	377.2	393.0	<i>399.3</i>
65°	314.1	314.1	328.3	342.5	<i>347.2</i>
67.5°	266.7	269.9	279.3	290.4	<i>293.5</i>
70°	222.5	222.5	232.0	239.9	<i>241.5</i>
72.5°	183.1	181.5	186.2	192.5	<i>195.7</i>
75°	143.6	140.5	146.8	149.9	<i>153.1</i>
77.5°	108.9	107.3	110.5	113.6	<i>113.6</i>
80°	77.3	75.8	78.9	78.9	<i>80.5</i>
82.5°	50.5	52.1	52.1	50.5	<i>48.9</i>
85°	28.4	28.4	26.8	25.3	<i>25.3</i>
87.5°	9.5	9.5	9.5	11.0	<i>11.0</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)