

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: P257287

Luminaire Tested: **D3X-WD-31L940-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-31L940-LD5-UNV-22-T1-STD
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH ROUND PERF
Light Source: (126) 4000 CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2590.6 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

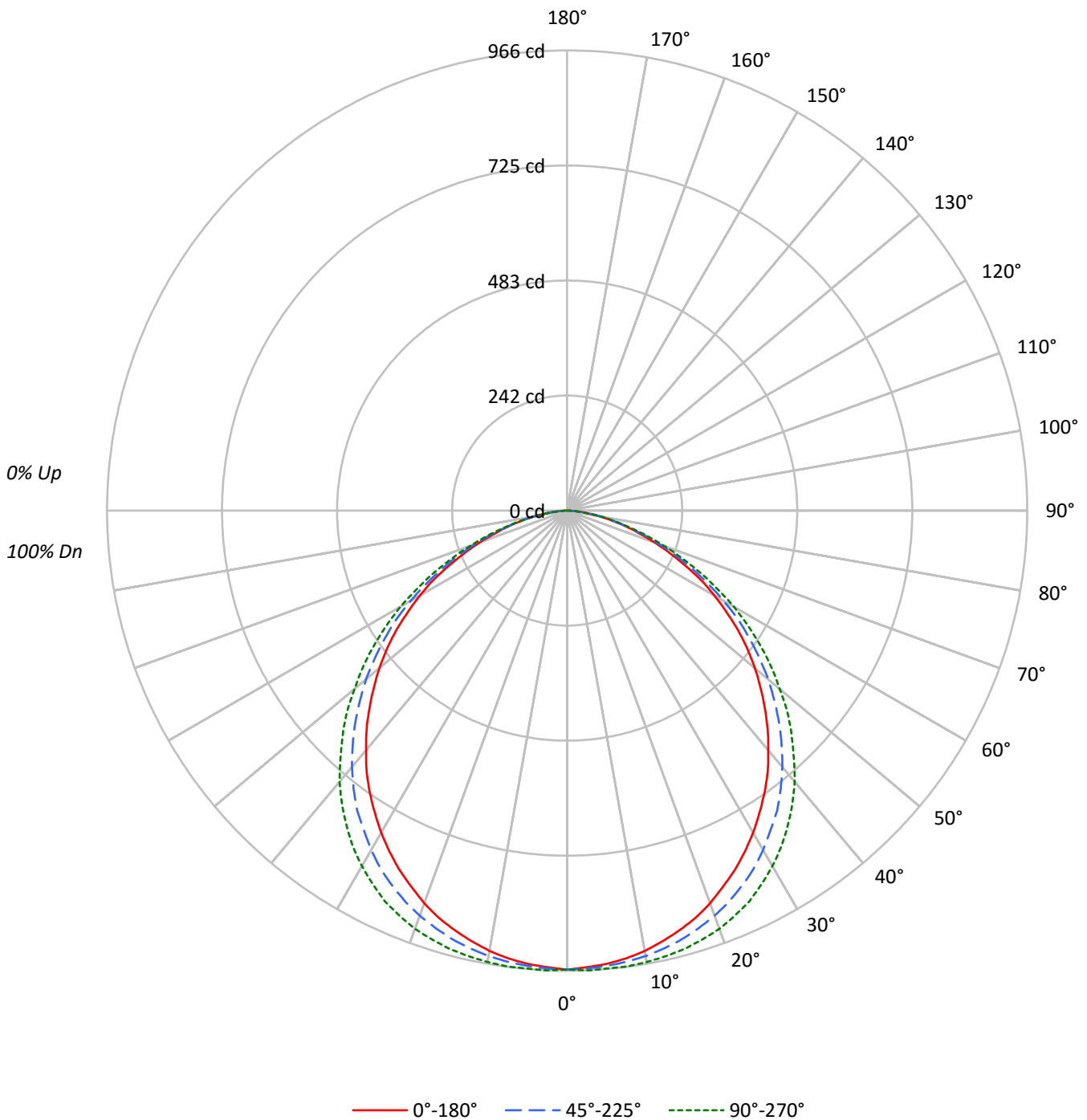
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	80	97	90	84	79	87	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	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	48	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	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2593	2593	2593
5°	2580	2592	2607
10°	2564	2595	2629
15°	2541	2595	2653
20°	2512	2592	2676
25°	2472	2579	2687
30°	2426	2556	2678
35°	2373	2524	2652
40°	2307	2469	2611
45°	2234	2393	2536
50°	2154	2306	2440
55°	2054	2191	2329
60°	1921	2041	2176
65°	1740	1847	1962
70°	1536	1613	1700
75°	1319	1349	1407
80°	1058	1080	1102
85°	775	689	689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	3.5
10°-20°	263.0	10.2
20°-30°	400.1	15.4
30°-40°	478.7	18.5
40°-50°	483.9	18.7
50°-60°	416.4	16.1
60°-70°	287.5	11.1
70°-80°	139.4	5.4
80°-90°	30.2	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°	754.4	29.1
0°-40°	1233.1	47.6
0°-60°	2133.4	82.4
0°-90°	2590.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2590.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	955	957	959	964	965	91
15°	912	918	932	945	952	257
25°	832	842	869	895	905	383
35°	722	735	768	796	807	451
45°	587	598	629	655	666	453
55°	438	445	467	488	496	390
65°	273	278	290	303	308	272
75°	127	124	130	134	135	135
85°	25	25	22	22	22	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	963.6	963.6	963.6	963.6	963.6
2.5°	959.4	959.4	962.2	965.0	966.3
5°	955.2	956.6	959.4	963.6	965.0
7.5°	948.2	949.6	955.2	962.2	965.0
10°	938.5	941.2	949.6	958.0	962.2
12.5°	925.9	931.5	941.2	952.4	958.0
15°	912.0	917.5	931.5	945.4	952.4
17.5°	896.6	902.2	918.9	937.1	944.0
20°	877.1	885.5	905.0	925.9	934.3
22.5°	854.8	865.9	888.3	910.6	920.3
25°	832.5	842.2	868.7	895.2	905.0
27.5°	807.4	818.5	847.8	874.3	884.1
30°	780.9	792.0	822.7	852.0	861.8
32.5°	751.6	765.5	794.8	825.5	836.7
35°	722.3	734.9	768.3	796.2	807.4
37.5°	691.6	702.8	736.3	765.5	776.7
40°	656.8	669.3	702.8	732.1	743.2
42.5°	623.3	635.9	666.5	694.4	704.2
45°	587.1	598.2	628.9	655.4	666.5
47.5°	550.8	563.4	589.8	616.3	627.5
50°	514.5	524.3	550.8	575.9	582.9
52.5°	476.9	485.3	509.0	531.3	541.0
55°	437.9	444.8	467.1	488.1	496.4
57.5°	396.0	404.4	425.3	440.6	450.4
60°	357.0	361.2	379.3	394.6	404.4
62.5°	317.9	319.3	333.3	348.6	354.2
65°	273.3	277.5	290.0	302.6	308.2
67.5°	232.9	237.1	246.8	256.6	260.8
70°	195.2	195.2	205.0	212.0	216.1
72.5°	157.6	159.0	165.9	170.1	174.3
75°	126.9	124.1	129.7	133.9	135.3
77.5°	94.8	93.4	97.6	99.0	101.8
80°	68.3	68.3	69.7	71.1	71.1
82.5°	44.6	44.6	46.0	43.2	41.8
85°	25.1	25.1	22.3	22.3	22.3
87.5°	8.4	8.4	8.4	9.8	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)