

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: P257430

Luminaire Tested: **D3X-WG-23L840-LD5-UNV-14-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257430
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-23L840-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: 2329.3 lumens
Efficiency: N/A
Efficacy: 104.9 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

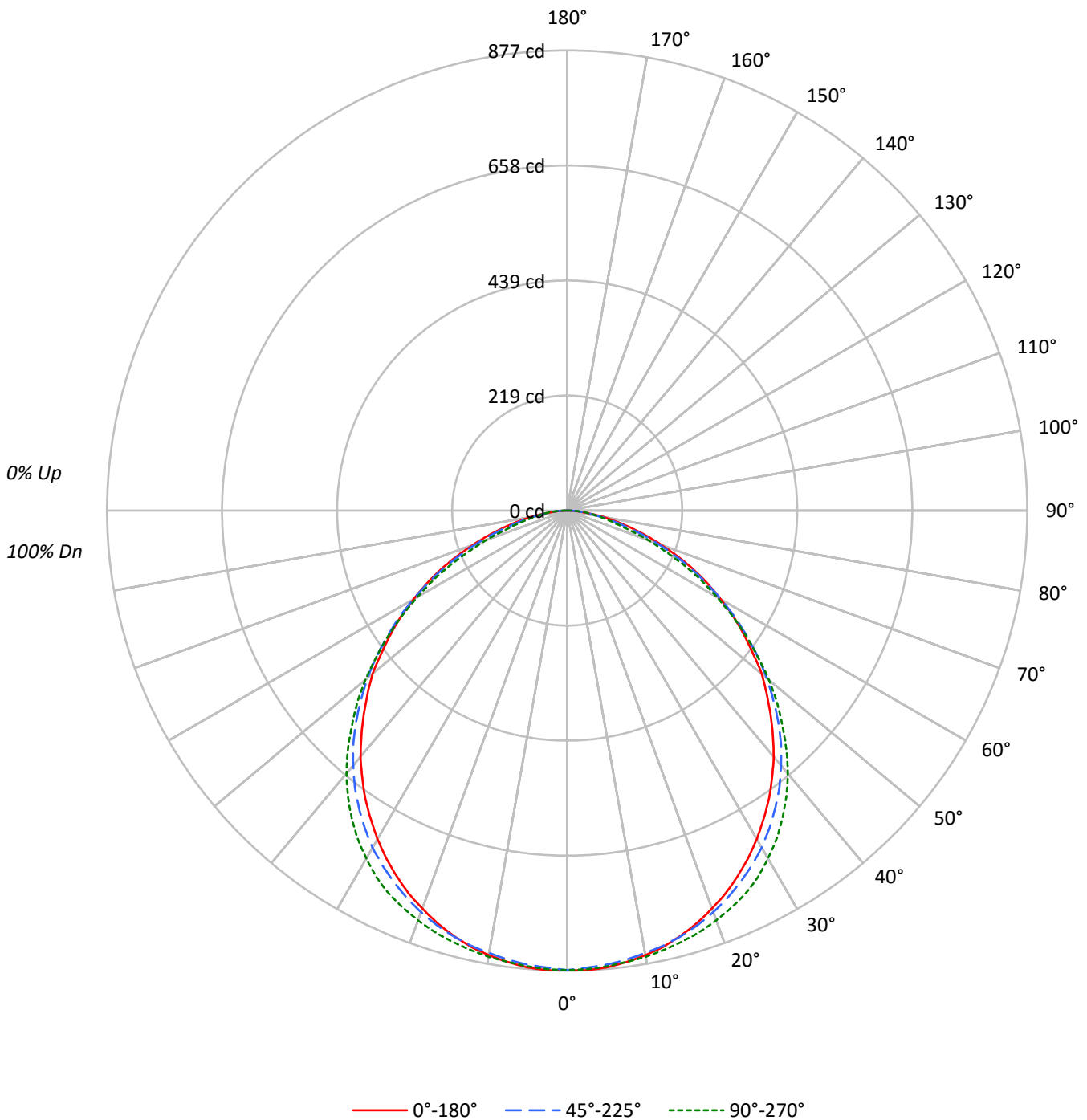
Input Watts (W): 22.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	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	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	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2357	2357	2357
5°	2361	2347	2355
10°	2351	2340	2360
15°	2336	2339	2368
20°	2312	2332	2380
25°	2282	2320	2391
30°	2246	2304	2379
35°	2204	2272	2351
40°	2152	2228	2298
45°	2085	2164	2208
50°	2027	2080	2102
55°	1925	1964	1955
60°	1822	1822	1771
65°	1691	1652	1559
70°	1500	1434	1295
75°	1300	1180	996
80°	1065	921	903
85°	707	837	902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	3.6
10°-20°	237.7	10.2
20°-30°	361.3	15.5
30°-40°	432.6	18.6
40°-50°	436.4	18.7
50°-60°	371.7	16.0
60°-70°	254.2	10.9
70°-80°	121.7	5.2
80°-90°	30.8	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°	681.9	29.3
0°-40°	1114.5	47.8
0°-60°	1922.6	82.5
0°-90°	2329.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2329.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	874	873	869	873	872	83
15°	838	836	840	849	850	236
25°	769	770	781	799	805	354
35°	671	673	692	711	716	419
45°	548	552	569	580	580	423
55°	410	412	419	420	417	367
65°	266	260	259	250	245	262
75°	125	123	114	99	96	134
85°	23	25	27	28	29	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.0	876.0	876.0	876.0	876.0
2.5°	877.0	876.0	871.8	876.0	874.9
5°	873.9	872.9	868.7	872.9	871.8
7.5°	867.7	866.6	863.5	867.7	867.7
10°	860.4	858.3	856.2	862.4	863.5
12.5°	851.0	848.9	848.9	856.2	857.2
15°	838.5	836.4	839.5	848.9	850.0
17.5°	823.9	822.9	828.1	839.5	841.6
20°	807.2	806.2	814.5	828.1	831.2
22.5°	789.5	789.5	798.9	814.5	818.7
25°	768.7	769.7	781.2	798.9	805.2
27.5°	746.8	748.9	762.5	782.2	787.5
30°	722.9	726.0	741.6	760.4	765.6
32.5°	696.8	700.0	717.7	737.5	742.7
35°	670.8	672.9	691.6	711.4	715.6
37.5°	641.6	644.8	664.5	682.3	686.4
40°	612.5	615.6	634.3	651.0	654.1
42.5°	580.2	584.3	603.1	616.6	618.7
45°	547.9	552.1	568.7	580.2	580.2
47.5°	515.6	517.7	532.3	543.7	542.7
50°	484.3	483.3	496.8	502.1	502.1
52.5°	445.8	448.9	458.3	461.4	458.3
55°	410.4	412.5	418.7	419.8	416.6
57.5°	376.0	375.0	380.2	377.1	372.9
60°	338.5	338.5	338.5	335.4	329.1
62.5°	302.1	300.0	298.9	291.6	288.5
65°	265.6	260.4	259.4	250.0	244.8
67.5°	227.1	225.0	219.8	210.4	201.0
70°	190.6	188.5	182.3	170.8	164.6
72.5°	157.3	155.2	146.9	133.3	125.0
75°	125.0	122.9	113.5	99.0	95.8
77.5°	94.8	93.7	84.4	77.1	76.0
80°	68.7	67.7	59.4	59.4	58.3
82.5°	43.7	43.7	41.7	42.7	43.7
85°	22.9	25.0	27.1	28.1	29.2
87.5°	7.3	11.5	13.5	14.6	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)