

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: P257518

Luminaire Tested: **D3X-WO-20L840-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-20L840-LD5-UNV-22-T1-STD
Description: CORELITE D3X 2X2 LED LUMINAIRE
Light Source: (126) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2058.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

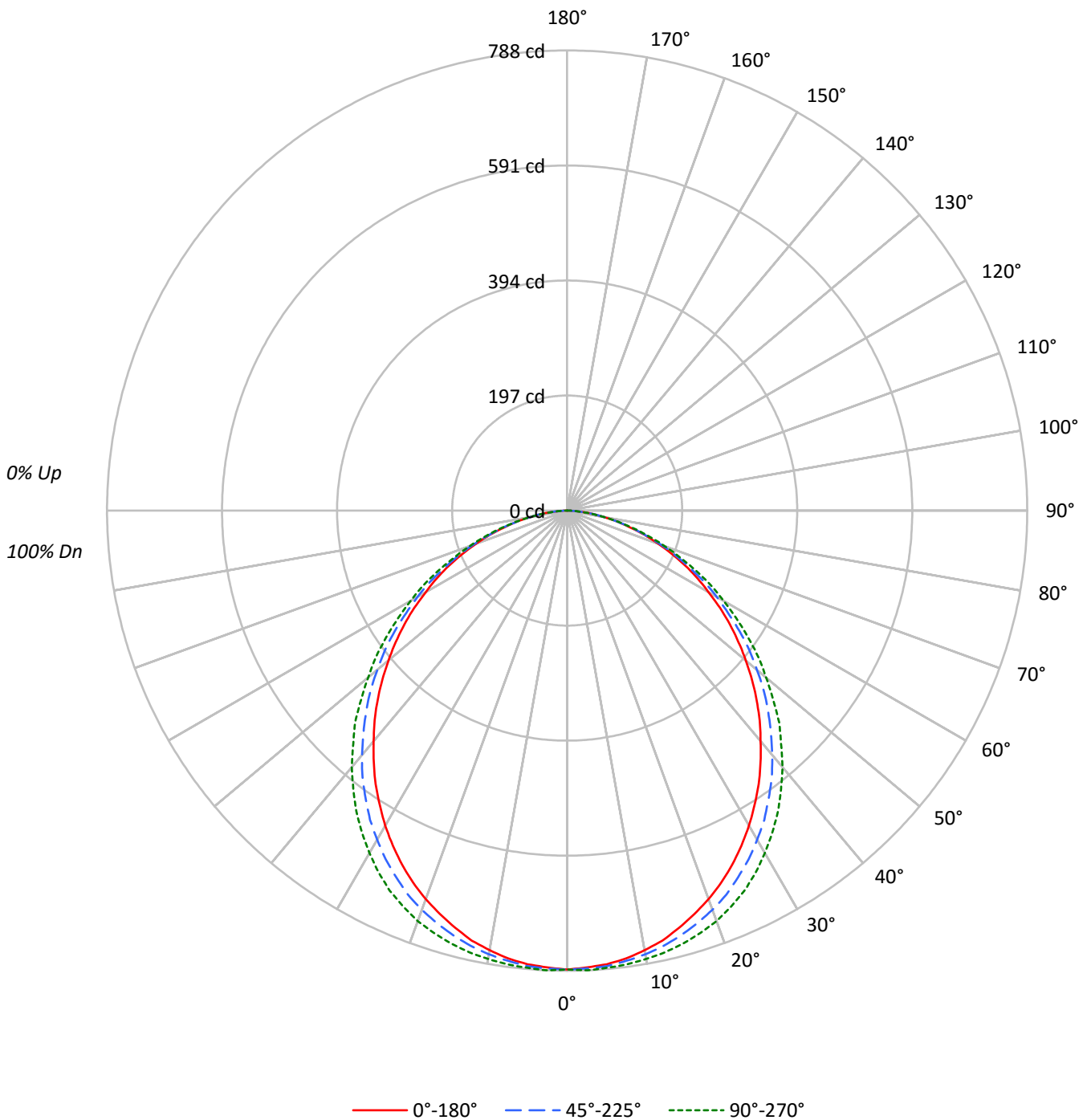
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P257518

CATALOG NUMBER: D3X-WO-20L840-LD5-UNV-22-T1-STD

Luminous Intensity Polar Plot





TEST NUMBER: P257518

CATALOG NUMBER: D3X-WO-20L840-LD5-UNV-22-T1-STD

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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	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	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	43	35	30	41	35	30	40	34	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°	2115	2115	2115
5°	2106	2115	2123
10°	2089	2108	2131
15°	2061	2098	2138
20°	2028	2083	2142
25°	1987	2057	2133
30°	1936	2022	2105
35°	1878	1976	2067
40°	1811	1919	2016
45°	1747	1852	1954
50°	1673	1776	1862
55°	1596	1692	1774
60°	1505	1594	1666
65°	1422	1475	1547
70°	1306	1346	1395
75°	1161	1194	1225
80°	1001	984	984
85°	760	695	633



TEST NUMBER: P257518

CATALOG NUMBER: D3X-WO-20L840-LD5-UNV-22-T1-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	3.6
10°-20°	212.5	10.3
20°-30°	319.1	15.5
30°-40°	375.5	18.2
40°-50°	374.5	18.2
50°-60°	321.4	15.6
60°-70°	230.2	11.2
70°-80°	121.9	5.9
80°-90°	28.5	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°	605.9	29.4
0°-40°	981.4	47.7
0°-60°	1677.4	81.5
0°-90°	2058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	780	780	783	785	786	74
15°	740	743	753	763	768	209
25°	669	675	693	710	718	308
35°	572	579	602	622	629	357
45°	459	466	487	504	513	354
55°	340	345	361	373	378	304
65°	223	224	232	241	243	221
75°	112	112	115	117	118	120
85°	25	24	22	20	20	30
90°	0	0	0	0	0	



TEST NUMBER: P257518

CATALOG NUMBER: D3X-WO-20L840-LD5-UNV-22-T1-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	785.9	785.9	785.9	785.9	785.9
2.5°	782.9	782.9	784.9	787.0	788.0
5°	779.8	779.8	782.9	784.9	785.9
7.5°	773.6	773.6	777.7	781.8	783.9
10°	764.4	766.5	771.6	777.7	779.8
12.5°	754.2	756.2	763.4	771.6	774.7
15°	739.8	742.9	753.1	763.4	767.5
17.5°	724.5	728.6	740.9	753.1	758.3
20°	708.1	712.2	727.5	741.9	748.0
22.5°	689.6	694.7	712.2	727.5	733.7
25°	669.1	675.3	692.7	710.1	718.3
27.5°	646.6	653.8	673.2	691.7	698.8
30°	623.0	631.2	650.7	670.1	677.3
32.5°	597.4	604.6	628.1	646.6	653.8
35°	571.8	579.0	601.5	622.0	629.2
37.5°	544.1	553.3	575.9	594.3	601.5
40°	515.4	524.6	546.2	567.7	573.8
42.5°	487.8	496.0	516.4	535.9	542.1
45°	459.1	466.2	486.7	504.1	513.4
47.5°	429.3	436.5	457.0	473.4	478.5
50°	399.6	406.8	424.2	438.6	444.7
52.5°	369.9	377.1	393.5	406.8	413.0
55°	340.2	345.3	360.7	373.0	378.1
57.5°	310.5	314.6	326.9	340.2	343.3
60°	279.7	284.9	296.1	305.4	309.5
62.5°	252.1	254.1	264.4	272.6	277.7
65°	223.4	224.4	231.6	240.8	242.9
67.5°	193.7	194.7	201.9	207.0	209.0
70°	166.0	166.0	171.1	175.2	177.3
72.5°	139.4	138.3	141.4	145.5	147.6
75°	111.7	111.7	114.8	116.8	117.8
77.5°	88.1	86.1	88.1	90.2	90.2
80°	64.6	63.5	63.5	64.6	63.5
82.5°	44.1	43.0	44.1	42.0	41.0
85°	24.6	23.6	22.5	20.5	20.5
87.5°	8.2	7.2	7.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)