

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: P257395

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257395
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-20L840-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: 1930.9 lumens
Efficiency: N/A
Efficacy: 117.0 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

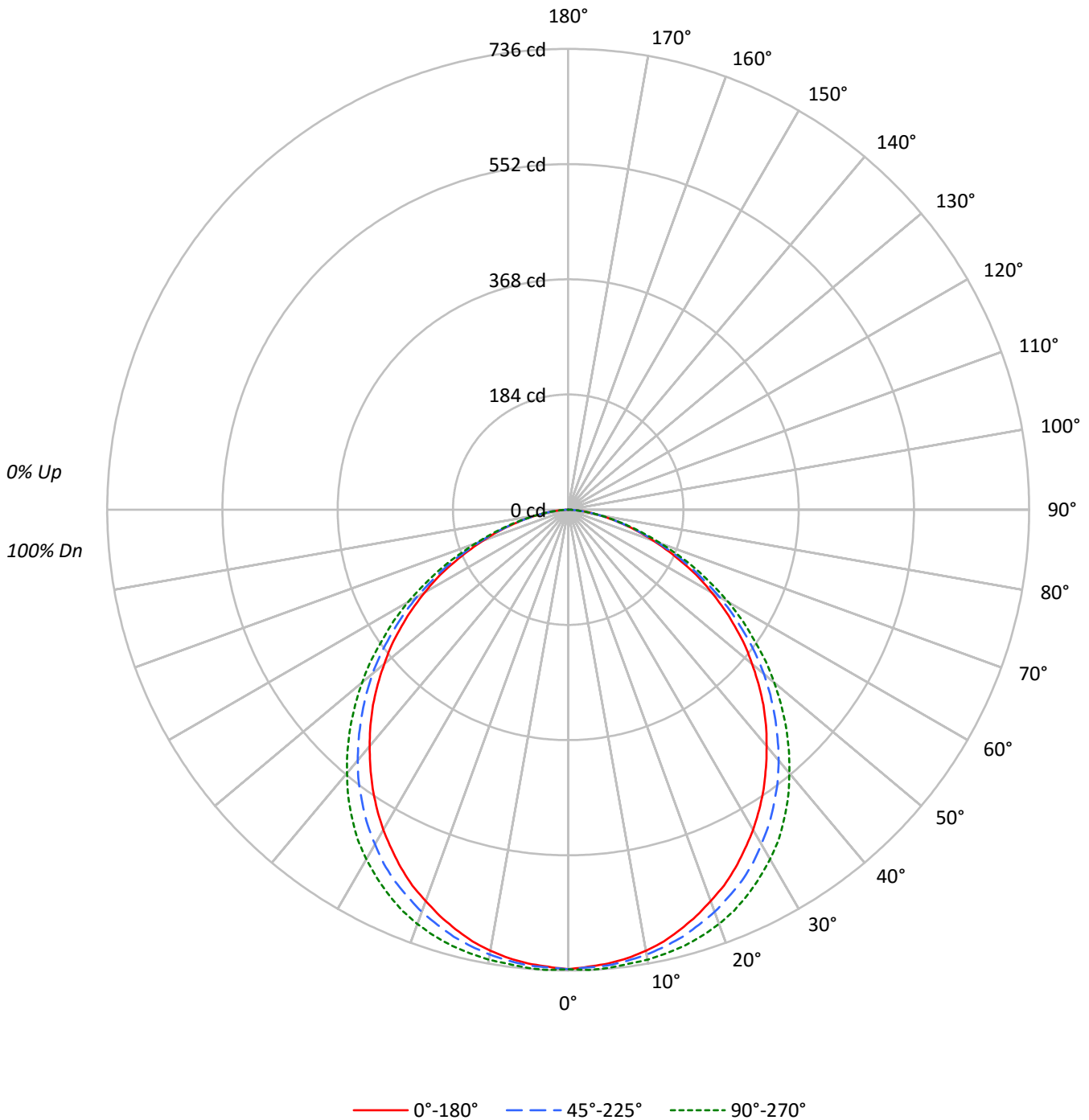
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1975	1975	1975
5°	1965	1974	1985
10°	1955	1971	1994
15°	1933	1967	2007
20°	1905	1958	2016
25°	1874	1945	2015
30°	1834	1917	2003
35°	1788	1882	1976
40°	1732	1836	1930
45°	1677	1775	1872
50°	1605	1708	1798
55°	1524	1611	1697
60°	1423	1500	1589
65°	1298	1358	1436
70°	1137	1186	1234
75°	970	991	1033
80°	778	793	810
85°	568	537	506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	3.6
10°-20°	199.3	10.3
20°-30°	301.4	15.6
30°-40°	358.0	18.5
40°-50°	359.4	18.6
50°-60°	307.0	15.9
60°-70°	211.5	11.0
70°-80°	102.5	5.3
80°-90°	22.4	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°	570.2	29.5
0°-40°	928.1	48.1
0°-60°	1594.5	82.6
0°-90°	1930.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1930.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	728	728	731	733	735	69
15°	694	697	706	715	720	196
25°	631	636	655	672	678	291
35°	544	552	573	594	602	340
45°	441	447	466	486	492	339
55°	325	330	343	358	362	290
65°	204	204	213	222	226	202
75°	93	91	95	97	99	100
85°	18	18	17	16	16	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	733.8	733.8	733.8	733.8	733.8
2.5°	730.7	730.7	731.7	734.8	735.8
5°	727.6	727.6	730.7	732.8	734.8
7.5°	722.5	723.5	726.6	730.7	731.7
10°	715.4	716.4	721.5	726.6	729.7
12.5°	706.1	708.2	714.3	722.5	725.6
15°	693.8	696.9	706.1	715.4	720.5
17.5°	680.5	684.6	694.9	708.2	713.3
20°	665.1	670.3	683.6	697.9	704.1
22.5°	649.8	653.9	669.2	685.6	692.8
25°	631.3	636.4	654.9	672.3	678.5
27.5°	610.8	618.0	637.5	655.9	662.1
30°	590.3	596.5	617.0	637.5	644.6
32.5°	567.8	573.9	596.5	617.0	625.2
35°	544.2	552.4	572.9	594.4	601.6
37.5°	518.6	527.8	549.3	567.8	577.0
40°	493.0	501.2	522.7	542.2	549.3
42.5°	467.3	474.5	495.0	515.5	521.7
45°	440.7	446.8	466.3	485.8	491.9
47.5°	412.0	419.2	437.6	454.0	461.2
50°	383.3	390.5	407.9	423.3	429.4
52.5°	355.6	359.7	376.1	390.5	397.6
55°	324.9	330.0	343.3	357.7	361.8
57.5°	295.2	298.2	311.6	323.9	330.0
60°	264.4	266.5	278.8	288.0	295.2
62.5°	235.7	235.7	244.9	255.2	259.3
65°	203.9	203.9	213.2	222.4	225.5
67.5°	173.2	175.3	181.4	188.6	190.6
70°	144.5	144.5	150.7	155.8	156.8
72.5°	118.9	117.9	120.9	125.0	127.1
75°	93.3	91.2	95.3	97.4	99.4
77.5°	70.7	69.7	71.7	73.8	73.8
80°	50.2	49.2	51.2	51.2	52.3
82.5°	32.8	33.8	33.8	32.8	31.8
85°	18.4	18.4	17.4	16.4	16.4
87.5°	6.1	6.1	6.1	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)