

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: P257530

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257530
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-31L840-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: 3169.2 lumens
Efficiency: N/A
Efficacy: 119.1 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

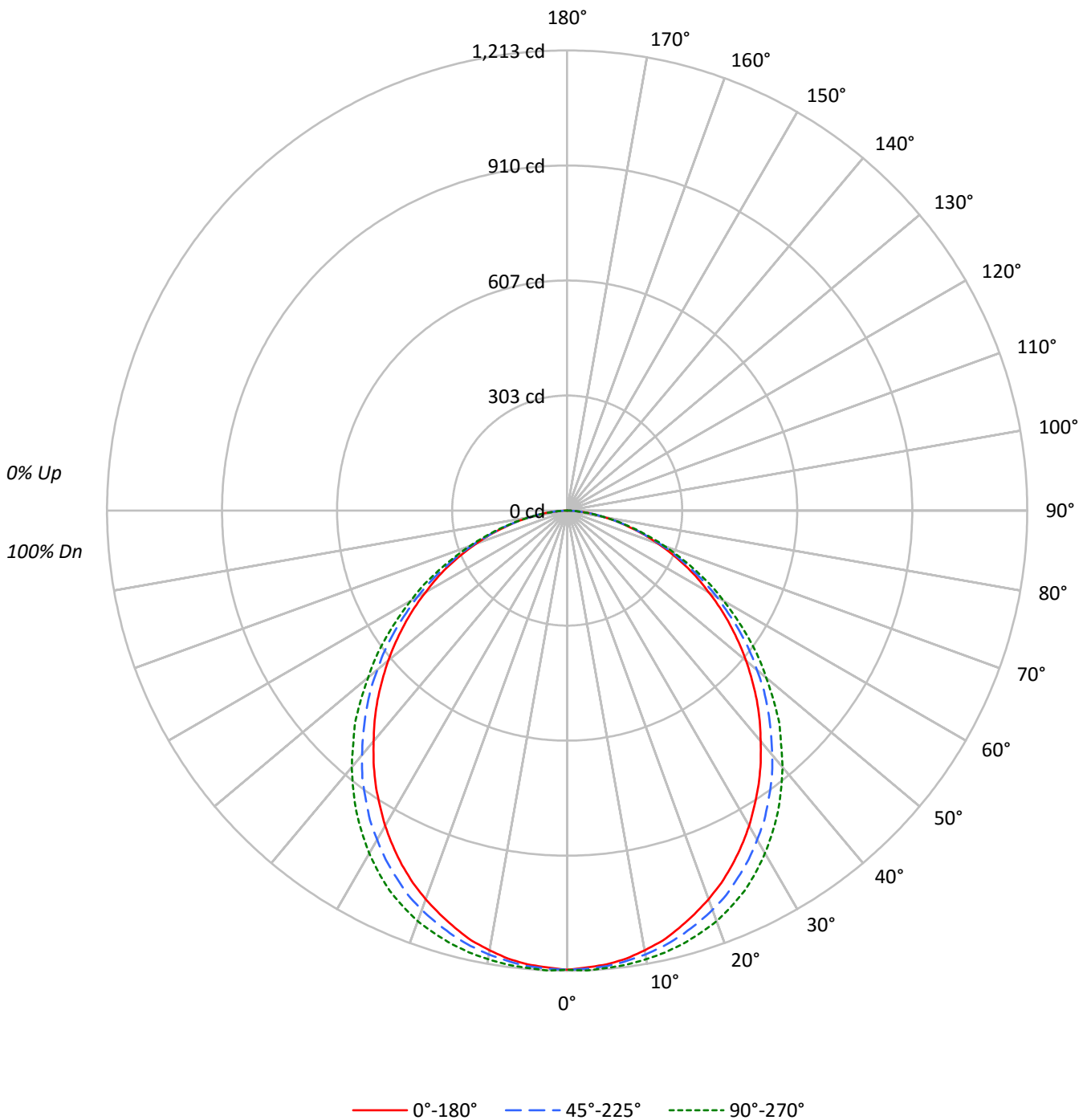
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3257	3257	3257
5°	3244	3256	3269
10°	3216	3247	3281
15°	3174	3231	3293
20°	3123	3208	3299
25°	3059	3167	3284
30°	2981	3113	3241
35°	2893	3043	3183
40°	2788	2954	3104
45°	2690	2852	3008
50°	2576	2735	2867
55°	2458	2606	2732
60°	2319	2454	2565
65°	2190	2271	2381
70°	2011	2073	2148
75°	1788	1837	1887
80°	1540	1516	1516
85°	1170	1071	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	3.6
10°-20°	327.2	10.3
20°-30°	491.3	15.5
30°-40°	578.3	18.2
40°-50°	576.8	18.2
50°-60°	495.0	15.6
60°-70°	354.5	11.2
70°-80°	187.7	5.9
80°-90°	43.9	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°	933.1	29.4
0°-40°	1511.3	47.7
0°-60°	2583.1	81.5
0°-90°	3169.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3169.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1210	1210	1210	1210	1210	
5°	1201	1201	1206	1209	1210	114
15°	1139	1144	1160	1176	1182	321
25°	1030	1040	1067	1094	1106	474
35°	880	892	926	958	969	550
45°	707	718	750	776	790	545
55°	524	532	555	574	582	468
65°	344	346	357	371	374	340
75°	172	172	177	180	182	184
85°	38	36	35	32	32	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1210.3	1210.3	1210.3	1210.3	1210.3
2.5°	1205.5	1205.5	1208.7	1211.9	1213.4
5°	1200.8	1200.8	1205.5	1208.7	1210.3
7.5°	1191.3	1191.3	1197.7	1204.0	1207.1
10°	1177.1	1180.3	1188.2	1197.7	1200.8
12.5°	1161.4	1164.5	1175.6	1188.2	1192.9
15°	1139.3	1144.0	1159.8	1175.6	1181.9
17.5°	1115.6	1121.9	1140.9	1159.8	1167.7
20°	1090.4	1096.7	1120.3	1142.4	1151.9
22.5°	1062.0	1069.8	1096.7	1120.3	1129.8
25°	1030.4	1039.9	1066.7	1093.5	1106.1
27.5°	995.7	1006.7	1036.7	1065.1	1076.2
30°	959.4	972.0	1002.0	1032.0	1043.0
32.5°	919.9	931.0	967.3	995.7	1006.7
35°	880.5	891.5	926.3	957.8	968.9
37.5°	837.9	852.1	886.8	915.2	926.3
40°	793.7	807.9	841.0	874.2	883.6
42.5°	751.1	763.7	795.3	825.3	834.7
45°	706.9	718.0	749.5	776.3	790.5
47.5°	661.2	672.2	703.8	729.0	736.9
50°	615.4	626.4	653.3	675.4	684.8
52.5°	569.6	580.7	605.9	626.4	635.9
55°	523.9	531.8	555.4	574.4	582.3
57.5°	478.1	484.4	503.4	523.9	528.6
60°	430.8	438.7	456.0	470.2	476.5
62.5°	388.2	391.3	407.1	419.7	427.6
65°	344.0	345.6	356.6	370.8	374.0
67.5°	298.2	299.8	310.9	318.7	321.9
70°	255.6	255.6	263.5	269.8	273.0
72.5°	214.6	213.0	217.8	224.1	227.2
75°	172.0	172.0	176.7	179.9	181.5
77.5°	135.7	132.5	135.7	138.9	138.9
80°	99.4	97.8	97.8	99.4	97.8
82.5°	67.9	66.3	67.9	64.7	63.1
85°	37.9	36.3	34.7	31.6	31.6
87.5°	12.6	11.0	11.0	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)