

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: P257299

Luminaire Tested: **D3X-WD-40L940-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257299
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-40L940-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: 3320.2 lumens
Efficiency: N/A
Efficacy: 93.3 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

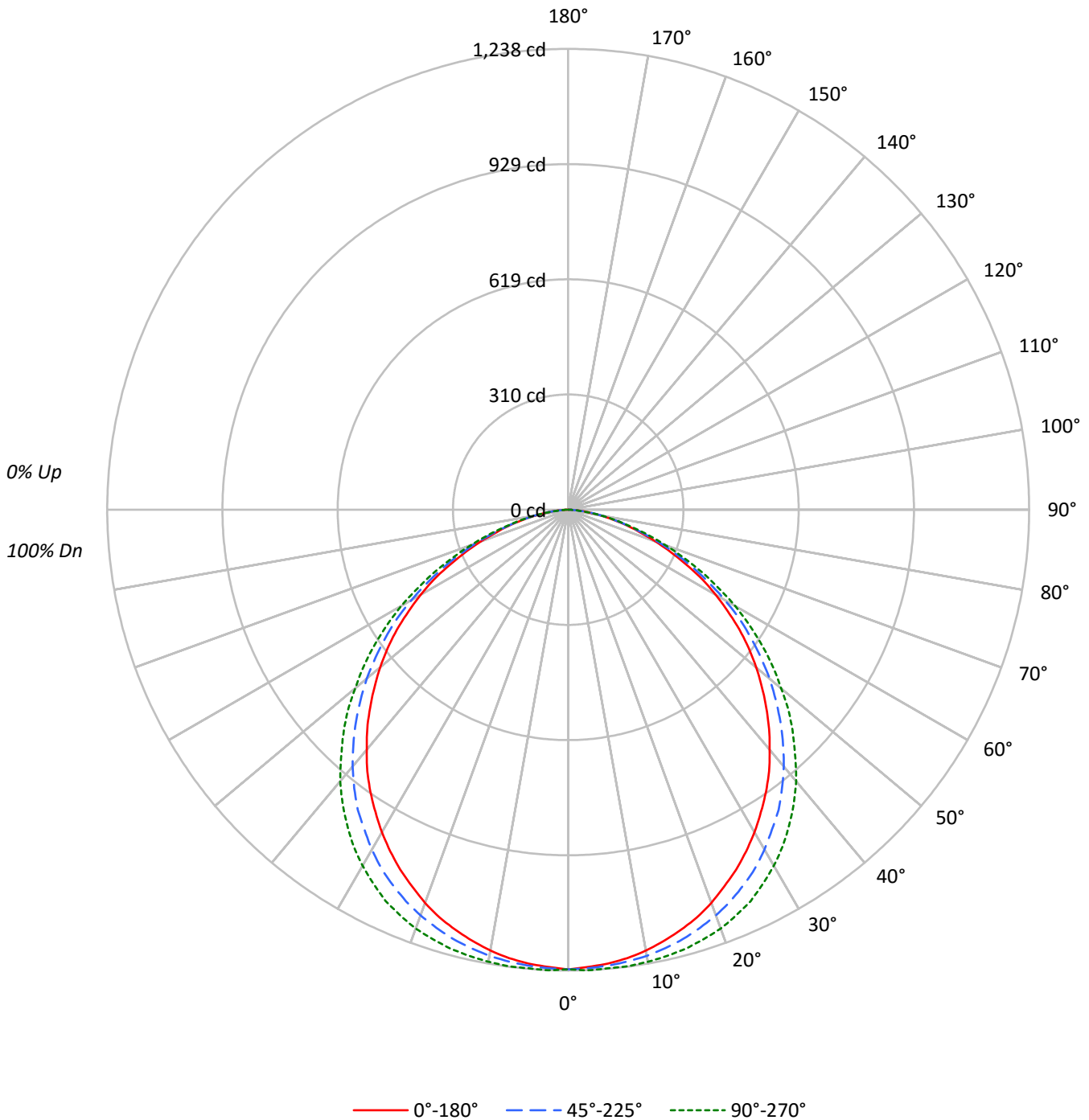
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3323	3323	3323
5°	3307	3321	3341
10°	3286	3325	3369
15°	3256	3326	3400
20°	3219	3321	3429
25°	3168	3306	3444
30°	3110	3276	3432
35°	3041	3235	3399
40°	2957	3164	3346
45°	2863	3067	3251
50°	2761	2955	3127
55°	2633	2809	2985
60°	2462	2616	2789
65°	2230	2367	2515
70°	1969	2067	2179
75°	1691	1728	1803
80°	1358	1385	1412
85°	994	883	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	3.5
10°-20°	337.1	10.2
20°-30°	512.7	15.4
30°-40°	613.5	18.5
40°-50°	620.2	18.7
50°-60°	533.7	16.1
60°-70°	368.5	11.1
70°-80°	178.7	5.4
80°-90°	38.8	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°	966.9	29.1
0°-40°	1580.3	47.6
0°-60°	2734.3	82.4
0°-90°	3320.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3320.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1224	1226	1230	1235	1237	116
15°	1169	1176	1194	1212	1221	330
25°	1067	1079	1113	1147	1160	491
35°	926	942	985	1020	1035	579
45°	752	767	806	840	854	580
55°	561	570	599	626	636	500
65°	350	356	372	388	395	349
75°	163	159	166	172	173	173
85°	32	32	29	29	29	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1234.9	1234.9	1234.9	1234.9	1234.9
2.5°	1229.5	1229.5	1233.1	1236.7	1238.5
5°	1224.2	1226.0	1229.5	1234.9	1236.7
7.5°	1215.2	1217.0	1224.2	1233.1	1236.7
10°	1202.7	1206.3	1217.0	1227.8	1233.1
12.5°	1186.7	1193.8	1206.3	1220.6	1227.8
15°	1168.8	1175.9	1193.8	1211.7	1220.6
17.5°	1149.1	1156.3	1177.7	1201.0	1209.9
20°	1124.1	1134.8	1159.8	1186.7	1197.4
22.5°	1095.5	1109.8	1138.4	1167.0	1179.5
25°	1066.9	1079.4	1113.4	1147.3	1159.8
27.5°	1034.7	1049.0	1086.6	1120.5	1133.0
30°	1000.8	1015.1	1054.4	1091.9	1104.4
32.5°	963.3	981.1	1018.7	1058.0	1072.3
35°	925.7	941.8	984.7	1020.5	1034.7
37.5°	886.4	900.7	943.6	981.1	995.4
40°	841.7	857.8	900.7	938.2	952.5
42.5°	798.8	814.9	854.2	890.0	902.5
45°	752.4	766.7	806.0	840.0	854.2
47.5°	705.9	722.0	756.0	789.9	804.2
50°	659.5	672.0	705.9	738.1	747.0
52.5°	611.2	621.9	652.3	680.9	693.4
55°	561.2	570.1	598.7	625.5	636.2
57.5°	507.5	518.3	545.1	564.7	577.2
60°	457.5	462.9	486.1	505.8	518.3
62.5°	407.5	409.3	427.1	446.8	453.9
65°	350.3	355.6	371.7	387.8	395.0
67.5°	298.5	303.8	316.3	328.8	334.2
70°	250.2	250.2	262.7	271.6	277.0
72.5°	201.9	203.7	212.7	218.0	223.4
75°	162.6	159.1	166.2	171.6	173.4
77.5°	121.5	119.7	125.1	126.9	130.5
80°	87.6	87.6	89.4	91.1	91.1
82.5°	57.2	57.2	59.0	55.4	53.6
85°	32.2	32.2	28.6	28.6	28.6
87.5°	10.7	10.7	10.7	12.5	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)