

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: P257329

Luminaire Tested: **D3X-WD-40L830-LD5-UNV-14-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-40L830-LD5-UNV-14-T1-STD
Description: CORELITE D3X 1X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (112) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3841.8 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

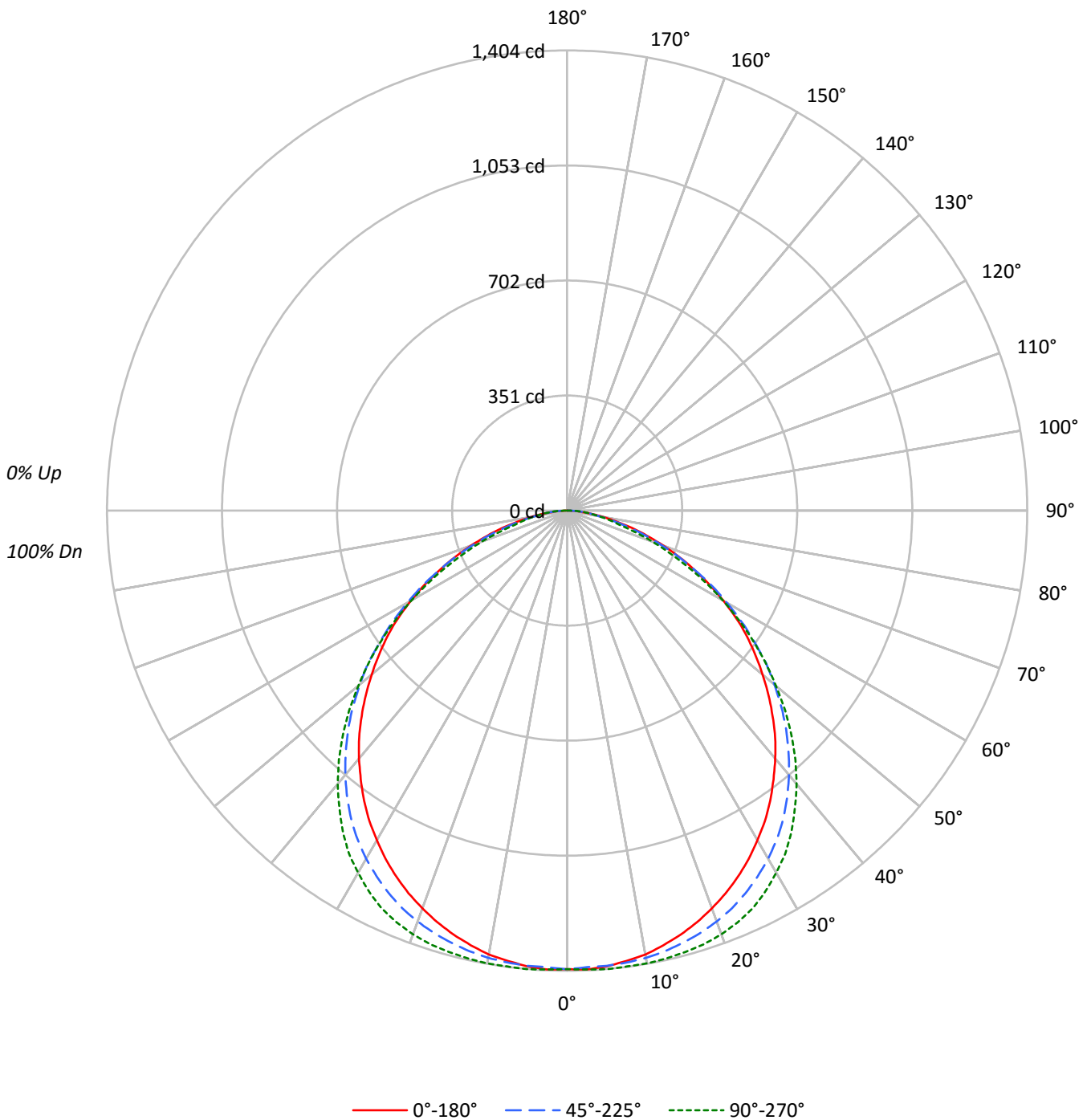
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	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	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3766	3766	3766
5°	3771	3766	3794
10°	3758	3786	3833
15°	3731	3803	3884
20°	3698	3821	3939
25°	3661	3824	3977
30°	3608	3810	3965
35°	3549	3775	3921
40°	3470	3699	3825
45°	3374	3596	3681
50°	3260	3453	3482
55°	3146	3267	3250
60°	2963	3027	2954
65°	2730	2741	2588
70°	2442	2388	2172
75°	2122	1980	1676
80°	1702	1542	1542
85°	1216	1430	1482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	3.5
10°-20°	386.3	10.1
20°-30°	593.1	15.4
30°-40°	714.3	18.6
40°-50°	721.9	18.8
50°-60°	615.7	16.0
60°-70°	421.5	11.0
70°-80°	203.4	5.3
80°-90°	52.4	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°	1112.5	29.0
0°-40°	1826.9	47.6
0°-60°	3164.5	82.4
0°-90°	3841.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3841.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1396	1396	1394	1403	1404	133
15°	1339	1350	1365	1389	1394	378
25°	1233	1252	1288	1326	1339	568
35°	1080	1104	1149	1185	1194	675
45°	887	911	945	967	967	684
55°	670	682	696	700	693	597
65°	429	434	430	415	406	425
75°	204	204	190	168	161	217
85°	39	43	46	48	48	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1399.4	1399.4	1399.4	1399.4	1399.4
2.5°	1401.1	1399.4	1394.2	1401.1	1401.1
5°	1395.9	1395.9	1394.2	1402.8	1404.5
7.5°	1385.7	1389.1	1390.8	1401.1	1402.8
10°	1375.4	1378.8	1385.7	1399.4	1402.8
12.5°	1358.2	1365.1	1377.1	1395.9	1399.4
15°	1339.3	1349.6	1365.1	1389.1	1394.2
17.5°	1317.1	1330.8	1351.4	1378.8	1387.4
20°	1291.3	1306.8	1334.2	1365.1	1375.4
22.5°	1263.9	1281.0	1313.6	1349.6	1359.9
25°	1233.0	1251.9	1287.9	1325.6	1339.3
27.5°	1198.7	1219.3	1258.7	1298.2	1310.2
30°	1161.0	1183.3	1226.2	1265.6	1275.9
32.5°	1123.3	1145.6	1190.2	1227.9	1239.9
35°	1080.4	1104.4	1149.0	1185.0	1193.6
37.5°	1034.1	1058.1	1102.7	1138.7	1142.1
40°	987.8	1011.8	1053.0	1085.5	1089.0
42.5°	939.8	962.1	999.8	1027.2	1030.7
45°	886.6	910.6	944.9	967.2	967.2
47.5°	833.4	857.5	886.6	902.0	902.0
50°	778.6	800.9	824.9	833.4	831.7
52.5°	723.7	744.3	764.9	766.6	763.1
55°	670.5	682.5	696.3	699.7	692.8
57.5°	612.2	622.5	631.1	625.9	620.8
60°	550.5	560.8	562.5	553.9	548.8
62.5°	490.5	499.0	499.0	485.3	476.7
65°	428.7	433.9	430.4	415.0	406.4
67.5°	370.4	373.9	367.0	351.6	337.8
70°	310.4	312.1	303.5	284.7	276.1
72.5°	255.5	257.2	246.9	224.7	214.4
75°	204.1	204.1	190.4	168.1	161.2
77.5°	152.6	157.8	142.3	130.3	130.3
80°	109.8	114.9	99.5	101.2	99.5
82.5°	72.0	77.2	72.0	72.0	72.0
85°	39.4	42.9	46.3	48.0	48.0
87.5°	12.0	20.6	22.3	24.0	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)