

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: P257452

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-40L830-LD5-UNV-14-T1-STD
Description: CORELITE D3X 1X4 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (112) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3835.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

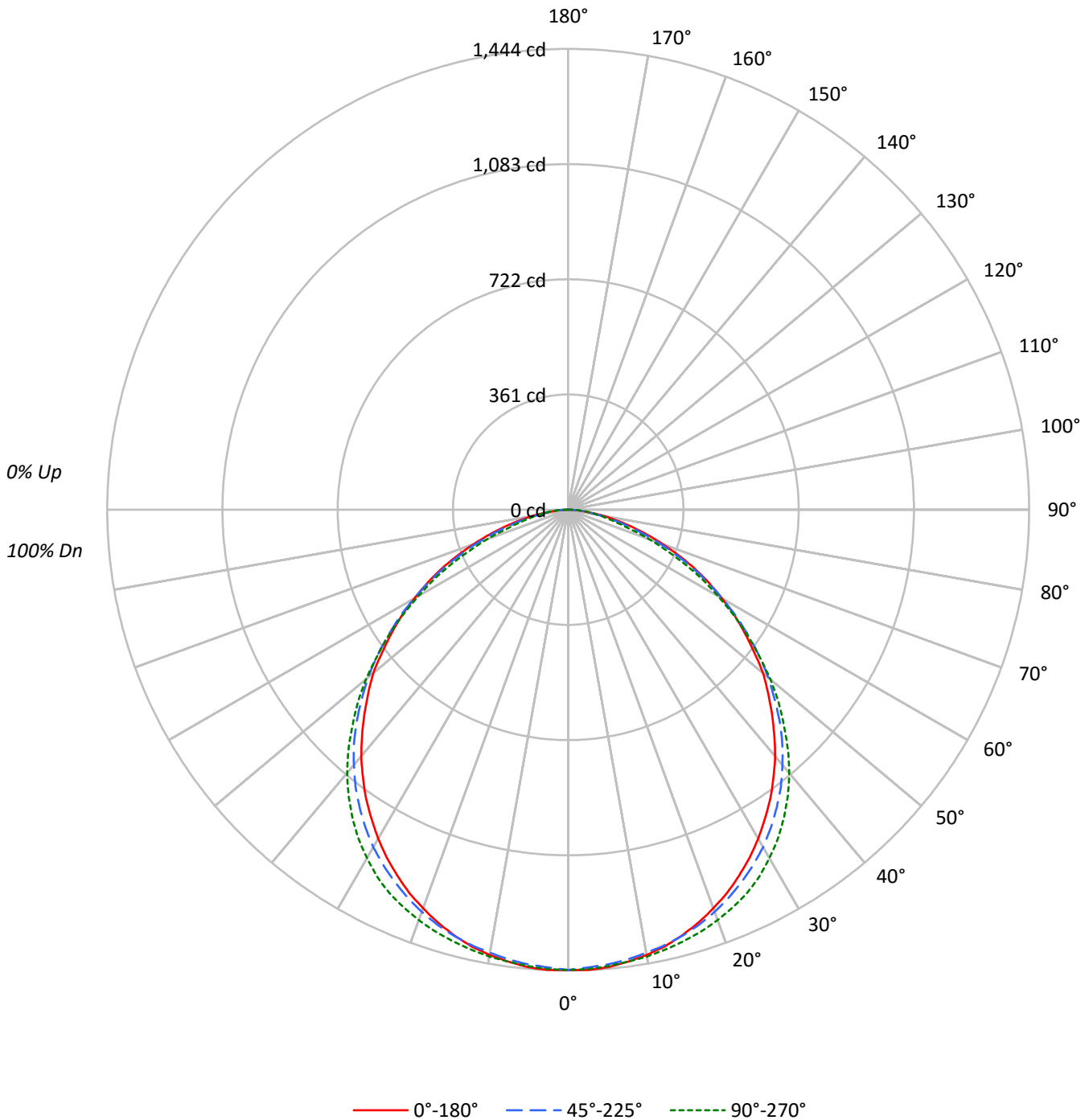
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77		83	79	75		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	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		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	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	35	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°	3881	3881	3881
5°	3887	3864	3877
10°	3871	3852	3885
15°	3846	3851	3899
20°	3806	3840	3919
25°	3758	3819	3936
30°	3698	3794	3917
35°	3628	3741	3870
40°	3542	3669	3783
45°	3433	3564	3635
50°	3338	3424	3460
55°	3170	3234	3218
60°	3000	3000	2916
65°	2784	2719	2566
70°	2469	2361	2132
75°	2140	1943	1641
80°	1754	1516	1488
85°	1164	1377	1482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	3.6
10°-20°	391.4	10.2
20°-30°	594.9	15.5
30°-40°	712.3	18.6
40°-50°	718.5	18.7
50°-60°	612.0	16.0
60°-70°	418.5	10.9
70°-80°	200.4	5.2
80°-90°	50.7	1.3
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°	1122.7	29.3
0°-40°	1835.0	47.8
0°-60°	3165.4	82.5
0°-90°	3835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3835.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1442	1442	1442	1442	1442	
5°	1439	1437	1430	1437	1435	137
15°	1380	1377	1382	1398	1399	389
25°	1266	1267	1286	1315	1326	583
35°	1104	1108	1139	1171	1178	690
45°	902	909	936	955	955	697
55°	676	679	689	691	686	605
65°	437	429	427	412	403	431
75°	206	202	187	163	158	220
85°	38	41	45	46	48	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1442.3	1442.3	1442.3	1442.3	1442.3
2.5°	1444.0	1442.3	1435.4	1442.3	1440.5
5°	1438.8	1437.1	1430.3	1437.1	1435.4
7.5°	1428.5	1426.8	1421.7	1428.5	1428.5
10°	1416.5	1413.1	1409.7	1420.0	1421.7
12.5°	1401.1	1397.7	1397.7	1409.7	1411.4
15°	1380.5	1377.1	1382.2	1397.7	1399.4
17.5°	1356.5	1354.8	1363.4	1382.2	1385.7
20°	1329.1	1327.4	1341.1	1363.4	1368.5
22.5°	1299.9	1299.9	1315.4	1341.1	1347.9
25°	1265.6	1267.3	1286.2	1315.4	1325.6
27.5°	1229.6	1233.0	1255.3	1287.9	1296.5
30°	1190.2	1195.3	1221.0	1251.9	1260.5
32.5°	1147.3	1152.4	1181.6	1214.2	1222.7
35°	1104.4	1107.8	1138.7	1171.3	1178.2
37.5°	1056.4	1061.5	1094.1	1123.3	1130.1
40°	1008.4	1013.5	1044.4	1071.8	1077.0
42.5°	955.2	962.1	992.9	1015.2	1018.7
45°	902.1	908.9	936.4	955.2	955.2
47.5°	848.9	852.3	876.3	895.2	893.5
50°	797.4	795.7	818.0	826.6	826.6
52.5°	734.0	739.1	754.6	759.7	754.6
55°	675.7	679.1	689.4	691.1	686.0
57.5°	619.1	617.4	626.0	620.8	613.9
60°	557.4	557.4	557.4	552.2	541.9
62.5°	497.3	493.9	492.2	480.2	475.0
65°	437.3	428.7	427.0	411.6	403.0
67.5°	373.9	370.4	361.9	346.4	331.0
70°	313.8	310.4	300.1	281.2	271.0
72.5°	259.0	255.5	241.8	219.5	205.8
75°	205.8	202.4	186.9	162.9	157.8
77.5°	156.1	154.3	138.9	126.9	125.2
80°	113.2	111.5	97.8	97.8	96.0
82.5°	72.0	72.0	68.6	70.3	72.0
85°	37.7	41.2	44.6	46.3	48.0
87.5°	12.0	18.9	22.3	24.0	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)