

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: P302201

Luminaire Tested: **ZX-WO-39L830-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-40)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-39L830-UNV-22-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (196)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

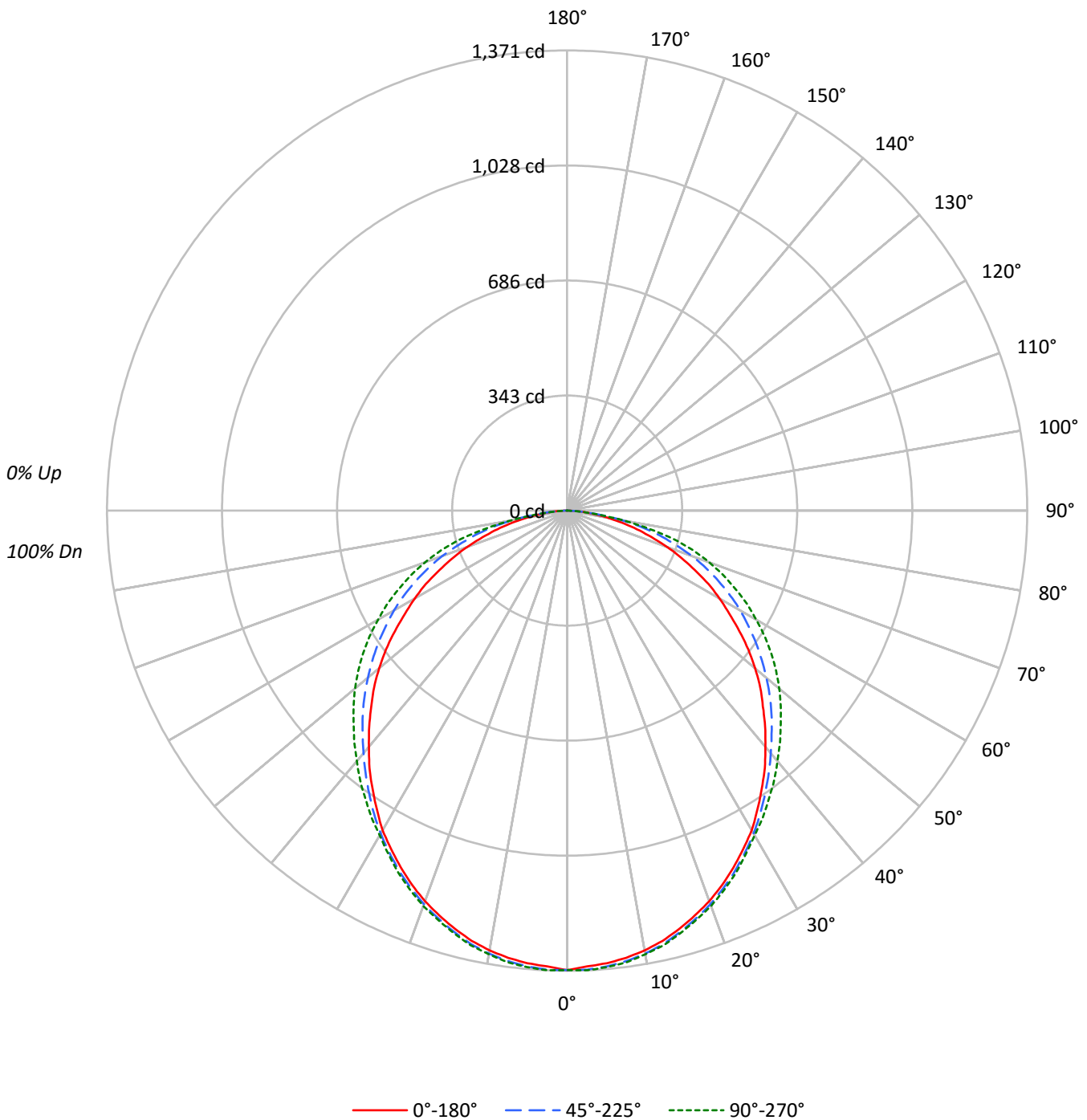
Lumens per Lamp: N/A
Luminaire Lumens: 3805.1 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (A_{in}): 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	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	76	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3684	3684	3684
5°	3656	3682	3687
10°	3636	3662	3667
15°	3594	3621	3632
20°	3546	3574	3590
25°	3483	3517	3534
30°	3417	3453	3471
35°	3323	3379	3442
40°	3229	3316	3424
45°	3139	3278	3424
50°	3059	3244	3453
55°	2941	3220	3482
60°	2825	3208	3498
65°	2669	3171	3526
70°	2496	3116	3540
75°	2239	2959	3419
80°	1877	2593	2622
85°	1485	1485	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	3.4
10°-20°	366.1	9.6
20°-30°	544.8	14.3
30°-40°	644.5	16.9
40°-50°	665.9	17.5
50°-60°	612.3	16.1
60°-70°	486.9	12.8
70°-80°	291.6	7.7
80°-90°	63.6	1.7
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°	1040.2	27.3
0°-40°	1684.7	44.3
0°-60°	2962.9	77.9
0°-90°	3805.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3805.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1354	1357	1363	1365	1365	128
15°	1290	1294	1300	1304	1304	364
25°	1173	1177	1184	1190	1190	540
35°	1011	1017	1029	1042	1048	633
45°	825	832	861	892	900	638
55°	627	640	686	729	742	561
65°	419	444	498	542	554	417
75°	215	244	285	317	329	228
85°	48	52	48	44	38	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1369.0	1369.0	1369.0	1369.0	1369.0
2.5°	1359.4	1363.2	1369.0	1370.9	1370.9
5°	1353.6	1357.4	1363.2	1365.1	1365.1
7.5°	1344.0	1347.8	1353.6	1355.5	1357.4
10°	1330.5	1334.4	1340.1	1342.1	1342.1
12.5°	1313.2	1315.1	1322.8	1324.8	1326.7
15°	1290.2	1294.0	1299.8	1303.6	1303.6
17.5°	1265.2	1269.0	1274.8	1278.6	1278.6
20°	1238.2	1242.1	1247.9	1251.7	1253.6
22.5°	1207.5	1211.3	1217.1	1222.9	1222.9
25°	1172.9	1176.7	1184.4	1190.2	1190.2
27.5°	1136.3	1140.2	1147.9	1153.6	1153.6
30°	1099.8	1101.7	1111.3	1115.2	1117.1
32.5°	1055.6	1061.3	1071.0	1078.7	1084.4
35°	1011.4	1017.1	1028.7	1042.1	1047.9
37.5°	967.1	972.9	986.4	1005.6	1013.3
40°	919.1	926.8	944.1	969.1	974.8
42.5°	872.9	882.5	901.8	930.6	938.3
45°	824.9	832.5	861.4	892.1	899.8
47.5°	780.6	786.4	819.1	853.7	863.3
50°	730.6	738.3	774.9	813.3	824.9
52.5°	680.6	690.3	730.6	771.0	784.5
55°	626.8	640.3	686.4	728.7	742.2
57.5°	573.0	592.2	640.3	682.6	698.0
60°	524.9	542.2	596.0	636.4	649.9
62.5°	474.9	494.1	548.0	588.4	605.7
65°	419.2	444.2	498.0	542.2	553.7
67.5°	369.2	394.2	448.0	488.4	503.8
70°	317.3	346.1	396.1	432.6	449.9
72.5°	263.4	294.2	338.4	376.9	394.2
75°	215.3	244.2	284.6	317.3	328.8
77.5°	167.3	194.2	226.9	246.1	250.0
80°	121.1	142.3	167.3	171.1	169.2
82.5°	80.8	96.1	103.8	100.0	100.0
85°	48.1	51.9	48.1	44.2	38.5
87.5°	17.3	15.4	11.5	7.7	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)