

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: P302059

Luminaire Tested: **ZX-WO-44L830-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-44L830-UNV-14-STD
Description: CORELITE CLASS RX 1X4 LED LUMINAIRE.
FLAT LENS
Light Source: (112)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4593.5 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

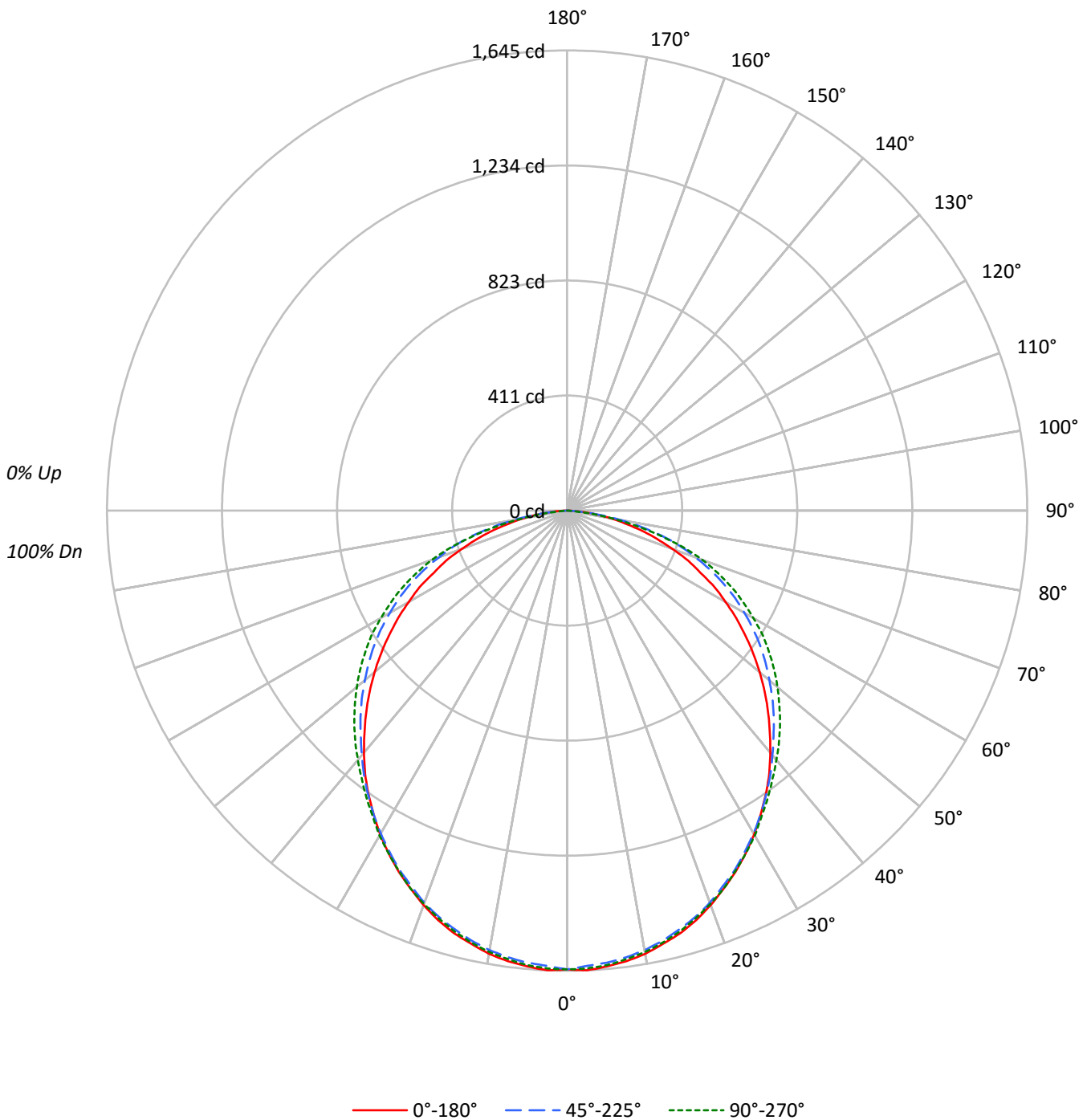
Input Watts (W): 38.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P302059

CATALOG NUMBER: ZX-WO-44L830-UNV-14-STD

Luminous Intensity Polar Plot





TEST NUMBER: P302059

CATALOG NUMBER: ZX-WO-44L830-UNV-14-STD

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	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	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	46	38	32	59	46	38	32	44	37	32		43	36	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°	4414	4414	4414
5°	4419	4382	4407
10°	4396	4359	4378
15°	4357	4319	4338
20°	4298	4273	4285
25°	4230	4210	4223
30°	4154	4140	4168
35°	4067	4074	4112
40°	3970	4010	4089
45°	3865	3976	4096
50°	3763	3951	4111
55°	3648	3953	4132
60°	3519	3942	4136
65°	3348	3920	4135
70°	3147	3836	4049
75°	2850	3668	3551
80°	2438	2960	2611
85°	1735	1386	417



TEST NUMBER: P302059

CATALOG NUMBER: ZX-WO-44L830-UNV-14-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	3.4
10°-20°	439.2	9.6
20°-30°	655.1	14.3
30°-40°	778.4	16.9
40°-50°	807.9	17.6
50°-60°	747.1	16.3
60°-70°	595.2	13.0
70°-80°	348.4	7.6
80°-90°	67.6	1.5
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°	1249.0	27.2
0°-40°	2027.4	44.1
0°-60°	3582.4	78.0
0°-90°	4593.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4593.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1640	1640	1640	1640	1640	
5°	1636	1631	1622	1631	1631	155
15°	1564	1562	1550	1562	1557	441
25°	1425	1422	1418	1425	1422	656
35°	1238	1238	1240	1249	1252	774
45°	1016	1027	1045	1070	1076	783
55°	778	800	843	872	881	695
65°	526	564	616	640	649	524
75°	274	319	353	348	342	290
85°	56	67	45	22	14	70
90°	0	0	0	0	0	



TEST NUMBER: P302059

CATALOG NUMBER: ZX-WO-44L830-UNV-14-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1640.3	1640.3	1640.3	1640.3	1640.3
2.5°	1644.8	1640.3	1629.1	1640.3	1638.0
5°	1635.8	1631.3	1622.3	1631.3	1631.3
7.5°	1624.6	1620.1	1611.1	1620.1	1617.8
10°	1608.8	1604.3	1595.4	1604.3	1602.1
12.5°	1586.4	1584.1	1575.1	1584.1	1581.9
15°	1563.9	1561.7	1550.4	1561.7	1557.2
17.5°	1534.7	1532.4	1523.5	1530.2	1527.9
20°	1501.0	1496.5	1492.0	1498.7	1496.5
22.5°	1462.8	1460.5	1453.8	1465.0	1462.8
25°	1424.6	1422.3	1417.8	1424.6	1422.3
27.5°	1381.9	1379.6	1375.2	1384.1	1381.9
30°	1337.0	1337.0	1332.5	1343.7	1341.4
32.5°	1287.5	1287.5	1287.5	1294.3	1294.3
35°	1238.1	1238.1	1240.3	1249.3	1251.6
37.5°	1186.4	1186.4	1193.1	1206.6	1206.6
40°	1130.2	1134.7	1141.5	1161.7	1163.9
42.5°	1071.8	1080.8	1092.0	1116.7	1121.2
45°	1015.6	1026.9	1044.8	1069.6	1076.3
47.5°	957.2	970.7	995.4	1022.4	1029.1
50°	898.8	916.8	943.7	975.2	981.9
52.5°	838.1	858.3	894.3	925.8	932.5
55°	777.5	799.9	842.6	871.8	880.8
57.5°	716.8	741.5	788.7	817.9	829.1
60°	653.9	680.8	732.5	759.5	768.5
62.5°	595.4	624.7	676.3	701.1	710.0
65°	525.8	564.0	615.7	640.4	649.4
67.5°	469.6	505.6	552.8	579.7	582.0
70°	400.0	444.9	487.6	510.1	514.6
72.5°	337.0	382.0	424.7	433.7	433.7
75°	274.1	319.1	352.8	348.3	341.5
77.5°	211.2	256.2	274.1	258.4	251.7
80°	157.3	195.5	191.0	175.3	168.5
82.5°	103.4	132.6	112.3	94.4	85.4
85°	56.2	67.4	44.9	22.5	13.5
87.5°	20.2	13.5	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)