

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: P302413

Luminaire Tested: **ZX-WO-45L830-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302413  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-42)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: ZX-WO-45L830-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, STANDARD LUMEN PACKAGE.  
Light Source: (168)3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

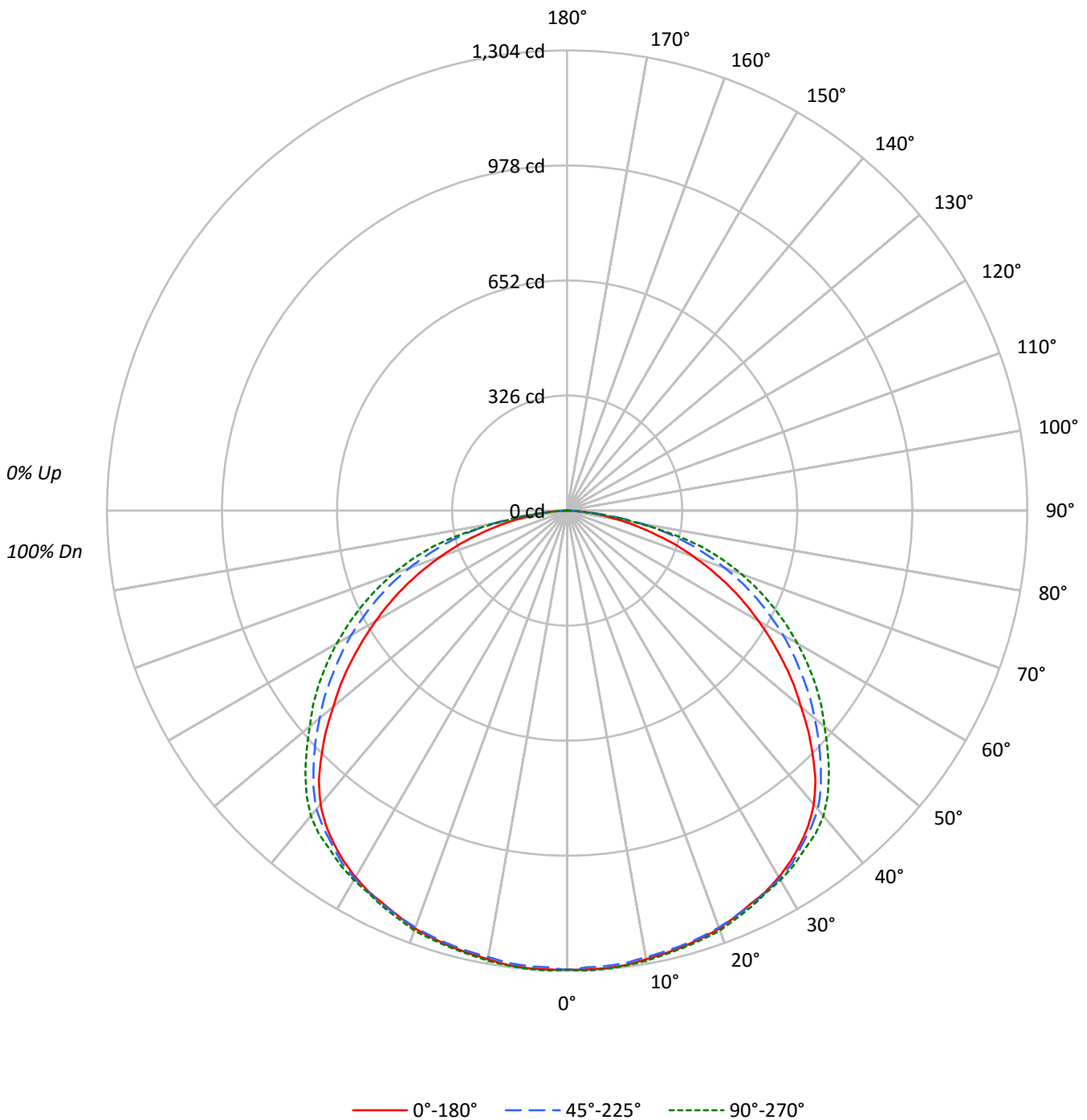
Lumens per Lamp: N/A  
Luminaire Lumens: 4305.5 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.39 / 1.48  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.3  
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: P302413  
CATALOG NUMBER: ZX-WO-45L830-UNV-24-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P302413

CATALOG NUMBER: ZX-WO-45L830-UNV-24-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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	43	38	36
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	37	30	24	36	29	24	35	29	24	35	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1751	1751	1751
5°	1758	1750	1760
10°	1764	1755	1770
15°	1781	1775	1785
20°	1805	1800	1813
25°	1826	1830	1837
30°	1864	1871	1878
35°	1893	1903	1925
40°	1909	1941	1984
45°	1875	1932	1996
50°	1811	1916	1992
55°	1755	1905	2015
60°	1686	1903	2029
65°	1612	1893	2047
70°	1501	1872	2069
75°	1344	1826	2039
80°	1119	1684	1567
85°	844	986	821



TEST NUMBER: P302413

CATALOG NUMBER: ZX-WO-45L830-UNV-24-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.8	2.9
10°-20°	361.7	8.4
20°-30°	570.5	13.2
30°-40°	728.3	16.9
40°-50°	784.5	18.2
50°-60°	722.8	16.8
60°-70°	578.1	13.4
70°-80°	354.8	8.2
80°-90°	81.0	1.9
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°	1056.0	24.5
0°-40°	1784.2	41.4
0°-60°	3291.6	76.5
0°-90°	4305.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4305.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1301	1301	1295	1303	1303	124
15°	1279	1280	1274	1282	1282	362
25°	1230	1232	1233	1239	1238	569
35°	1152	1156	1158	1171	1172	721
45°	985	996	1016	1042	1049	759
55°	748	768	812	848	859	669
65°	506	540	594	631	643	500
75°	258	300	351	383	392	275
85°	55	73	64	56	53	67
90°	0	0	0	0	0	



TEST NUMBER: P302413

CATALOG NUMBER: ZX-WO-45L830-UNV-24-STD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1301.4	1301.4	1301.4	1301.4	1301.4
2.5°	1301.4	1303.0	1295.4	1303.0	1304.5
5°	1301.4	1301.4	1295.4	1303.0	1303.0
7.5°	1298.4	1298.4	1292.3	1299.9	1299.9
10°	1290.8	1290.8	1284.7	1292.3	1295.4
12.5°	1284.7	1284.7	1280.1	1287.7	1287.7
15°	1278.6	1280.1	1274.1	1281.7	1281.7
17.5°	1269.5	1269.5	1266.5	1272.5	1274.1
20°	1260.4	1260.4	1257.3	1264.9	1266.5
22.5°	1245.2	1246.7	1245.2	1251.3	1251.3
25°	1230.0	1231.5	1233.0	1239.1	1237.6
27.5°	1217.8	1219.3	1219.3	1225.4	1220.9
30°	1199.6	1204.1	1204.1	1207.2	1208.7
32.5°	1178.3	1184.4	1185.9	1192.0	1193.5
35°	1152.4	1155.5	1158.5	1170.7	1172.2
37.5°	1123.6	1131.2	1134.2	1150.9	1155.5
40°	1087.1	1096.2	1105.3	1126.6	1129.6
42.5°	1041.5	1052.1	1064.3	1087.1	1093.1
45°	985.2	995.8	1015.6	1041.5	1049.1
47.5°	927.4	939.6	967.0	994.3	1000.4
50°	865.1	883.3	915.3	947.2	951.7
52.5°	808.8	827.1	866.6	900.1	907.7
55°	748.0	767.8	811.9	848.4	859.0
57.5°	687.2	713.1	760.2	796.7	807.3
60°	626.4	653.8	707.0	740.4	754.1
62.5°	567.1	597.5	650.7	688.7	699.4
65°	506.3	539.7	594.5	631.0	643.1
67.5°	443.9	478.9	536.7	573.2	585.3
70°	381.6	421.1	475.9	515.4	526.0
72.5°	322.3	358.8	413.5	448.5	462.2
75°	258.5	299.5	351.2	383.1	392.3
77.5°	200.7	240.2	285.8	305.6	302.6
80°	144.4	185.5	217.4	211.3	202.2
82.5°	97.3	130.8	135.3	126.2	123.1
85°	54.7	73.0	63.9	56.3	53.2
87.5°	22.8	19.8	10.6	4.6	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)