

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: P302296

Luminaire Tested: **ZX-WO-50H830-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-50H830-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (336)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

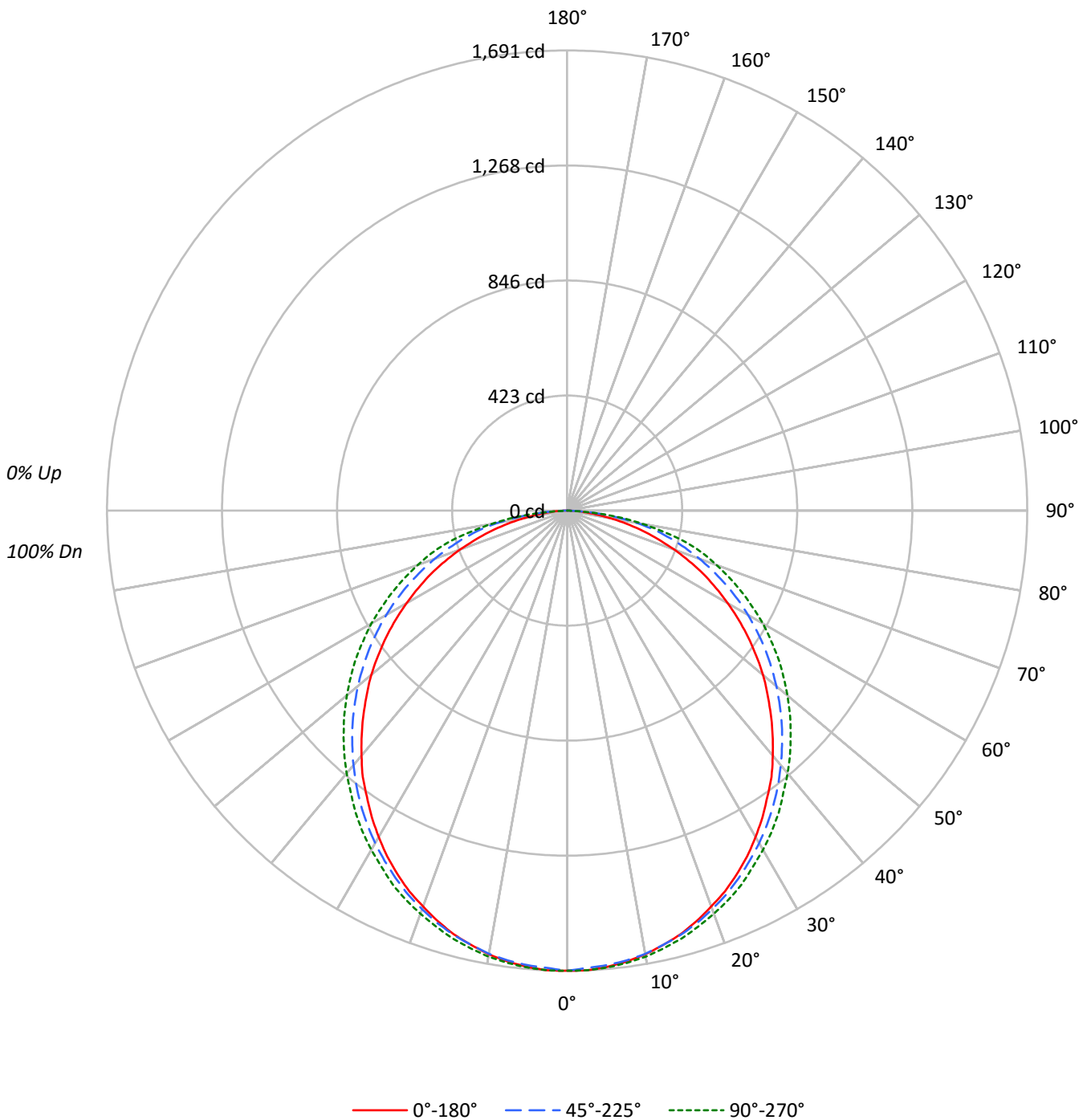
Lumens per Lamp: N/A
Luminaire Lumens: 4921.4 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.3
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: P302296
CATALOG NUMBER: ZX-WO-50H830-UNV-24-STD

Luminous Intensity Polar Plot





TEST NUMBER: P302296

CATALOG NUMBER: ZX-WO-50H830-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	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	61		68	64	60	57
4	82	69	60	54	79	68	60	53	65	58	52		63	57	52		61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2275	2275	2275
5°	2274	2265	2276
10°	2262	2260	2274
15°	2245	2247	2267
20°	2217	2232	2257
25°	2189	2213	2252
30°	2152	2193	2236
35°	2107	2171	2226
40°	2065	2145	2213
45°	2013	2124	2210
50°	1968	2101	2211
55°	1905	2082	2222
60°	1835	2067	2237
65°	1762	2048	2255
70°	1646	2033	2295
75°	1498	2037	2366
80°	1239	2015	2179
85°	949	1601	1547



TEST NUMBER: P302296

CATALOG NUMBER: ZX-WO-50H830-UNV-24-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	3.2
10°-20°	456.5	9.3
20°-30°	688.6	14.0
30°-40°	826.7	16.8
40°-50°	859.8	17.5
50°-60°	790.7	16.1
60°-70°	630.2	12.8
70°-80°	399.3	8.1
80°-90°	109.8	2.2
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°	1304.9	26.5
0°-40°	2131.6	43.3
0°-60°	3782.1	76.8
0°-90°	4921.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4921.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1684	1684	1677	1686	1686	160
15°	1612	1612	1613	1626	1628	454
25°	1475	1482	1490	1512	1517	679
35°	1283	1297	1322	1346	1355	804
45°	1058	1081	1116	1151	1162	817
55°	812	838	888	932	947	726
65°	554	582	643	692	708	546
75°	288	325	392	441	455	303
85°	62	88	104	102	100	73
90°	0	0	0	0	0	



TEST NUMBER: P302296

CATALOG NUMBER: ZX-WO-50H830-UNV-24-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1690.8	1690.8	1690.8	1690.8	1690.8
2.5°	1690.8	1690.8	1682.0	1690.8	1690.8
5°	1683.7	1683.7	1676.7	1685.5	1685.5
7.5°	1671.4	1673.2	1667.9	1676.7	1676.7
10°	1655.6	1657.4	1653.9	1664.4	1664.4
12.5°	1634.5	1636.3	1634.5	1646.8	1646.8
15°	1611.7	1611.7	1613.4	1625.7	1627.5
17.5°	1581.8	1585.3	1588.8	1602.9	1602.9
20°	1548.4	1553.7	1559.0	1576.5	1576.5
22.5°	1515.0	1520.3	1527.3	1544.9	1548.4
25°	1474.6	1481.6	1490.4	1511.5	1516.8
27.5°	1432.4	1437.7	1451.7	1474.6	1476.4
30°	1385.0	1393.7	1411.3	1434.2	1439.4
32.5°	1335.7	1348.0	1367.4	1393.7	1399.0
35°	1283.0	1297.1	1321.7	1346.3	1355.1
37.5°	1233.8	1244.4	1272.5	1300.6	1305.9
40°	1175.8	1191.6	1221.5	1253.1	1260.2
42.5°	1117.8	1135.4	1168.8	1200.4	1212.7
45°	1058.1	1080.9	1116.1	1151.2	1161.7
47.5°	998.3	1022.9	1059.8	1098.5	1110.8
50°	940.3	963.1	1003.6	1044.0	1056.3
52.5°	875.3	901.6	945.6	989.5	1001.8
55°	812.0	838.4	887.6	931.5	947.3
57.5°	747.0	776.8	827.8	873.5	887.6
60°	681.9	713.6	768.1	813.8	831.3
62.5°	616.9	646.8	706.5	752.2	768.1
65°	553.6	581.8	643.3	692.5	708.3
67.5°	485.1	516.7	580.0	631.0	645.0
70°	418.3	449.9	516.7	569.4	583.5
72.5°	349.8	386.7	453.5	504.4	523.8
75°	288.2	325.1	391.9	441.1	455.2
77.5°	223.2	260.1	328.7	363.8	365.6
80°	159.9	202.1	260.1	274.2	281.2
82.5°	105.5	145.9	179.3	196.8	196.8
85°	61.5	87.9	103.7	101.9	100.2
87.5°	22.8	29.9	24.6	17.6	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)