

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: P302294

Luminaire Tested: **ZX-WO-40H830-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302294
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-40H830-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (252)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

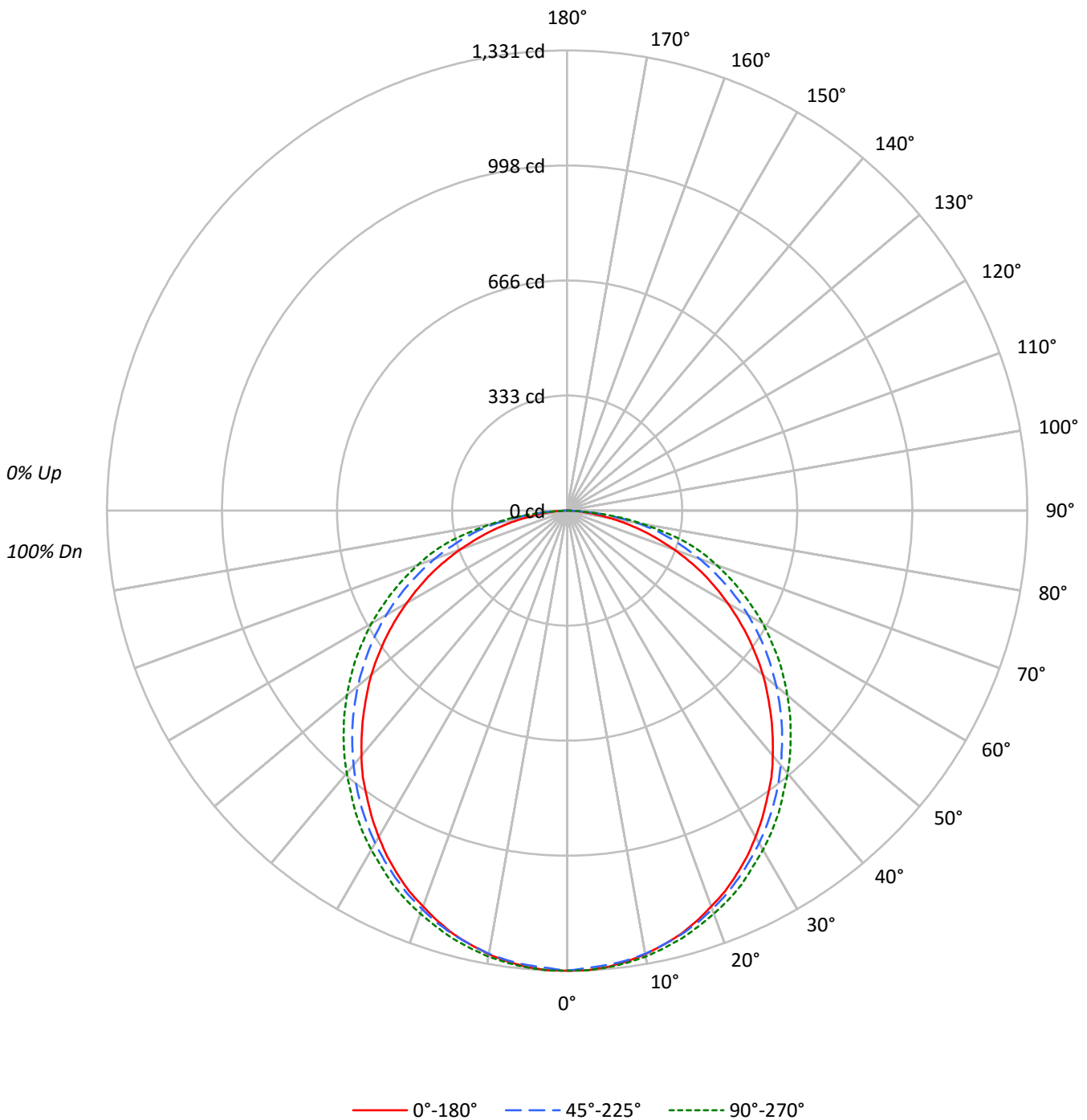
Lumens per Lamp: N/A
Luminaire Lumens: 3873.6 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
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: P302294
CATALOG NUMBER: ZX-WO-40H830-UNV-24-STD

Luminous Intensity Polar Plot





TEST NUMBER: P302294

CATALOG NUMBER: ZX-WO-40H830-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°	1791	1791	1791
5°	1790	1782	1792
10°	1780	1778	1790
15°	1767	1769	1784
20°	1745	1757	1777
25°	1723	1742	1772
30°	1694	1726	1760
35°	1659	1709	1752
40°	1626	1689	1742
45°	1585	1671	1740
50°	1549	1653	1740
55°	1499	1639	1749
60°	1444	1627	1761
65°	1387	1612	1775
70°	1295	1600	1807
75°	1180	1604	1863
80°	976	1586	1715
85°	747	1260	1218



TEST NUMBER: P302294

CATALOG NUMBER: ZX-WO-40H830-UNV-24-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	3.2
10°-20°	359.3	9.3
20°-30°	542.0	14.0
30°-40°	650.7	16.8
40°-50°	676.7	17.5
50°-60°	622.4	16.1
60°-70°	496.0	12.8
70°-80°	314.3	8.1
80°-90°	86.4	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°	1027.1	26.5
0°-40°	1677.8	43.3
0°-60°	2976.8	76.8
0°-90°	3873.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3873.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1331	1331	1331	1331	1331	
5°	1325	1325	1320	1327	1327	126
15°	1268	1268	1270	1280	1281	357
25°	1161	1166	1173	1190	1194	535
35°	1010	1021	1040	1060	1067	633
45°	833	851	878	906	914	643
55°	639	660	699	733	746	571
65°	436	458	506	545	558	430
75°	227	256	308	347	358	239
85°	48	69	82	80	79	58
90°	0	0	0	0	0	



TEST NUMBER: P302294

CATALOG NUMBER: ZX-WO-40H830-UNV-24-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1330.8	1330.8	1330.8	1330.8	1330.8
2.5°	1330.8	1330.8	1323.9	1330.8	1330.8
5°	1325.3	1325.3	1319.7	1326.6	1326.6
7.5°	1315.6	1317.0	1312.8	1319.7	1319.7
10°	1303.1	1304.5	1301.7	1310.0	1310.0
12.5°	1286.5	1287.9	1286.5	1296.2	1296.2
15°	1268.5	1268.5	1269.9	1279.6	1281.0
17.5°	1245.0	1247.8	1250.6	1261.6	1261.6
20°	1218.7	1222.9	1227.0	1240.9	1240.9
22.5°	1192.5	1196.6	1202.1	1216.0	1218.7
25°	1160.6	1166.2	1173.1	1189.7	1193.8
27.5°	1127.4	1131.6	1142.7	1160.6	1162.0
30°	1090.1	1097.0	1110.8	1128.8	1133.0
32.5°	1051.4	1061.0	1076.3	1097.0	1101.2
35°	1009.9	1020.9	1040.3	1059.7	1066.6
37.5°	971.1	979.4	1001.6	1023.7	1027.8
40°	925.5	937.9	961.4	986.3	991.9
42.5°	879.8	893.7	919.9	944.8	954.5
45°	832.8	850.8	878.4	906.1	914.4
47.5°	785.8	805.1	834.2	864.6	874.3
50°	740.1	758.1	789.9	821.7	831.4
52.5°	688.9	709.7	744.3	778.8	788.5
55°	639.1	659.9	698.6	733.2	745.6
57.5°	587.9	611.4	651.6	687.5	698.6
60°	536.7	561.6	604.5	640.5	654.3
62.5°	485.6	509.1	556.1	592.1	604.5
65°	435.8	457.9	506.3	545.0	557.5
67.5°	381.8	406.7	456.5	496.6	507.7
70°	329.2	354.1	406.7	448.2	459.3
72.5°	275.3	304.3	356.9	397.0	412.2
75°	226.9	255.9	308.5	347.2	358.3
77.5°	175.7	204.7	258.7	286.4	287.7
80°	125.9	159.1	204.7	215.8	221.3
82.5°	83.0	114.8	141.1	154.9	154.9
85°	48.4	69.2	81.6	80.2	78.9
87.5°	18.0	23.5	19.4	13.8	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)