

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: P302314

Luminaire Tested: **ZX-WO-40H840-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302314  
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-40H840-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.  
Light Source: (252)4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

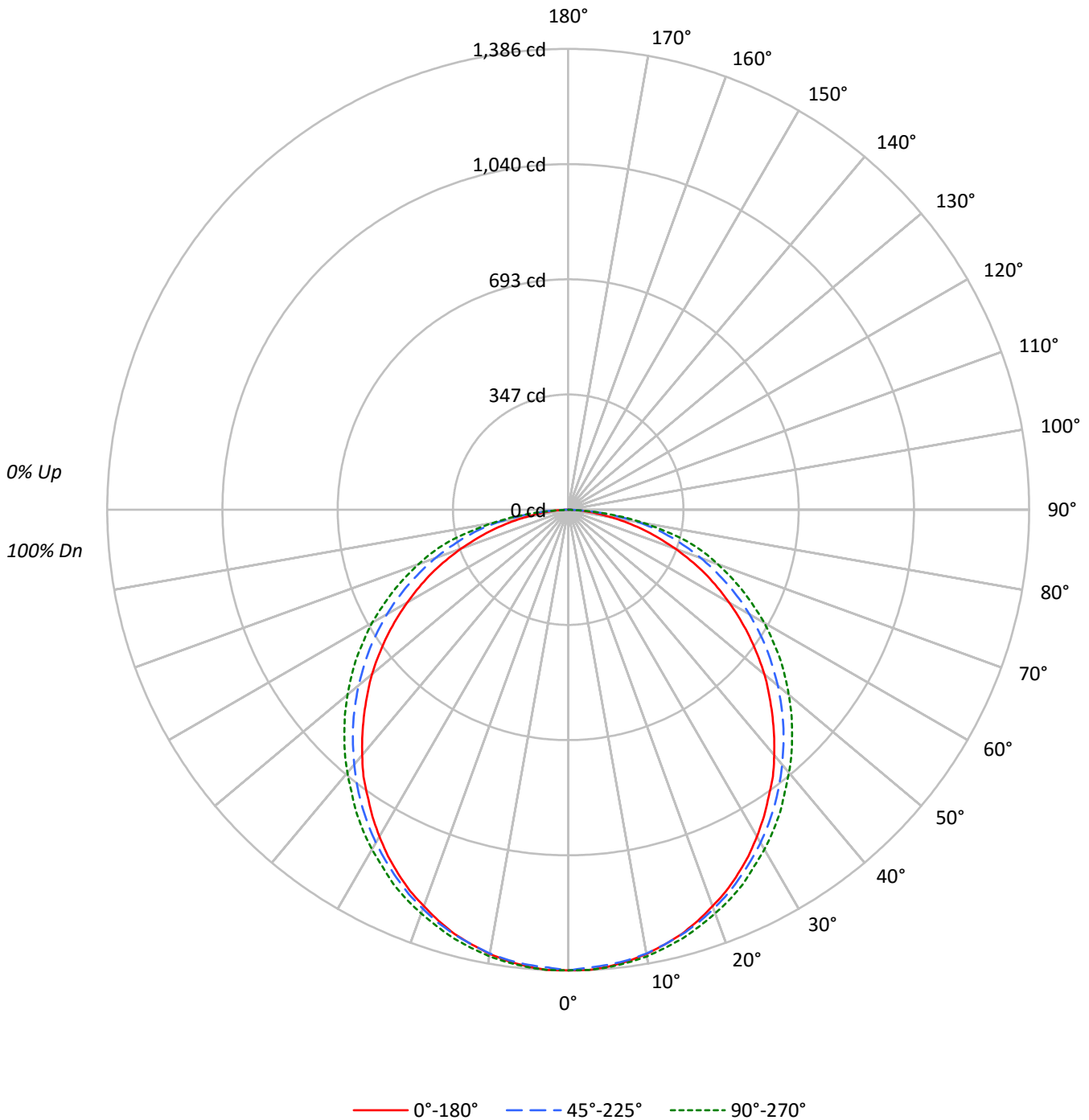
Lumens per Lamp: N/A  
Luminaire Lumens: 4033.3 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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: P302314  
CATALOG NUMBER: ZX-WO-40H840-UNV-24-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P302314

CATALOG NUMBER: ZX-WO-40H840-UNV-24-STD

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	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°	1864	1864	1864
5°	1864	1856	1866
10°	1854	1852	1864
15°	1840	1842	1858
20°	1817	1829	1850
25°	1794	1813	1845
30°	1763	1797	1833
35°	1727	1779	1824
40°	1692	1758	1814
45°	1650	1740	1812
50°	1613	1722	1812
55°	1561	1706	1821
60°	1504	1694	1833
65°	1444	1678	1848
70°	1349	1666	1881
75°	1228	1670	1940
80°	1016	1652	1786
85°	778	1312	1267



TEST NUMBER: P302314

CATALOG NUMBER: ZX-WO-40H840-UNV-24-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.0	3.2
10°-20°	374.1	9.3
20°-30°	564.3	14.0
30°-40°	677.5	16.8
40°-50°	704.6	17.5
50°-60°	648.0	16.1
60°-70°	516.5	12.8
70°-80°	327.3	8.1
80°-90°	90.0	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°	1069.4	26.5
0°-40°	1746.9	43.3
0°-60°	3099.5	76.8
0°-90°	4033.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4033.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1380	1380	1374	1381	1381	131
15°	1321	1321	1322	1332	1334	372
25°	1208	1214	1221	1239	1243	557
35°	1052	1063	1083	1103	1110	659
45°	867	886	915	943	952	669
55°	666	687	727	763	776	595
65°	454	477	527	568	580	447
75°	236	266	321	362	373	248
85°	50	72	85	84	82	60
90°	0	0	0	0	0	



TEST NUMBER: P302314

CATALOG NUMBER: ZX-WO-40H840-UNV-24-STD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1385.6	1385.6	1385.6	1385.6	1385.6
2.5°	1385.6	1385.6	1378.4	1385.6	1385.6
5°	1379.9	1379.9	1374.1	1381.3	1381.3
7.5°	1369.8	1371.2	1366.9	1374.1	1374.1
10°	1356.8	1358.3	1355.4	1364.0	1364.0
12.5°	1339.5	1341.0	1339.5	1349.6	1349.6
15°	1320.8	1320.8	1322.3	1332.3	1333.8
17.5°	1296.3	1299.2	1302.1	1313.6	1313.6
20°	1269.0	1273.3	1277.6	1292.0	1292.0
22.5°	1241.6	1245.9	1251.7	1266.1	1269.0
25°	1208.5	1214.2	1221.4	1238.7	1243.0
27.5°	1173.9	1178.2	1189.7	1208.5	1209.9
30°	1135.0	1142.2	1156.6	1175.3	1179.7
32.5°	1094.7	1104.8	1120.6	1142.2	1146.5
35°	1051.5	1063.0	1083.2	1103.3	1110.5
37.5°	1011.1	1019.8	1042.8	1065.9	1070.2
40°	963.6	976.6	1001.1	1027.0	1032.7
42.5°	916.1	930.5	957.8	983.8	993.9
45°	867.1	885.8	914.6	943.4	952.1
47.5°	818.1	838.3	868.5	900.2	910.3
50°	770.6	789.3	822.5	855.6	865.7
52.5°	717.3	738.9	774.9	810.9	821.0
55°	665.5	687.1	727.4	763.4	776.4
57.5°	612.2	636.6	678.4	715.9	727.4
60°	558.9	584.8	629.4	666.9	681.3
62.5°	505.6	530.1	579.0	616.5	629.4
65°	453.7	476.8	527.2	567.5	580.5
67.5°	397.5	423.5	475.3	517.1	528.6
70°	342.8	368.7	423.5	466.7	478.2
72.5°	286.6	316.9	371.6	413.4	429.2
75°	236.2	266.5	321.2	361.5	373.1
77.5°	182.9	213.2	269.3	298.2	299.6
80°	131.1	165.6	213.2	224.7	230.5
82.5°	86.4	119.6	146.9	161.3	161.3
85°	50.4	72.0	85.0	83.5	82.1
87.5°	18.7	24.5	20.2	14.4	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)