

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: P302434

Luminaire Tested: **ZX-WO-50L840-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302434  
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-50L840-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, STANDARD LUMEN PACKAGE.  
Light Source: (224)4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4912.9 lumens  
Efficiency: N/A  
Efficacy: 127.3 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

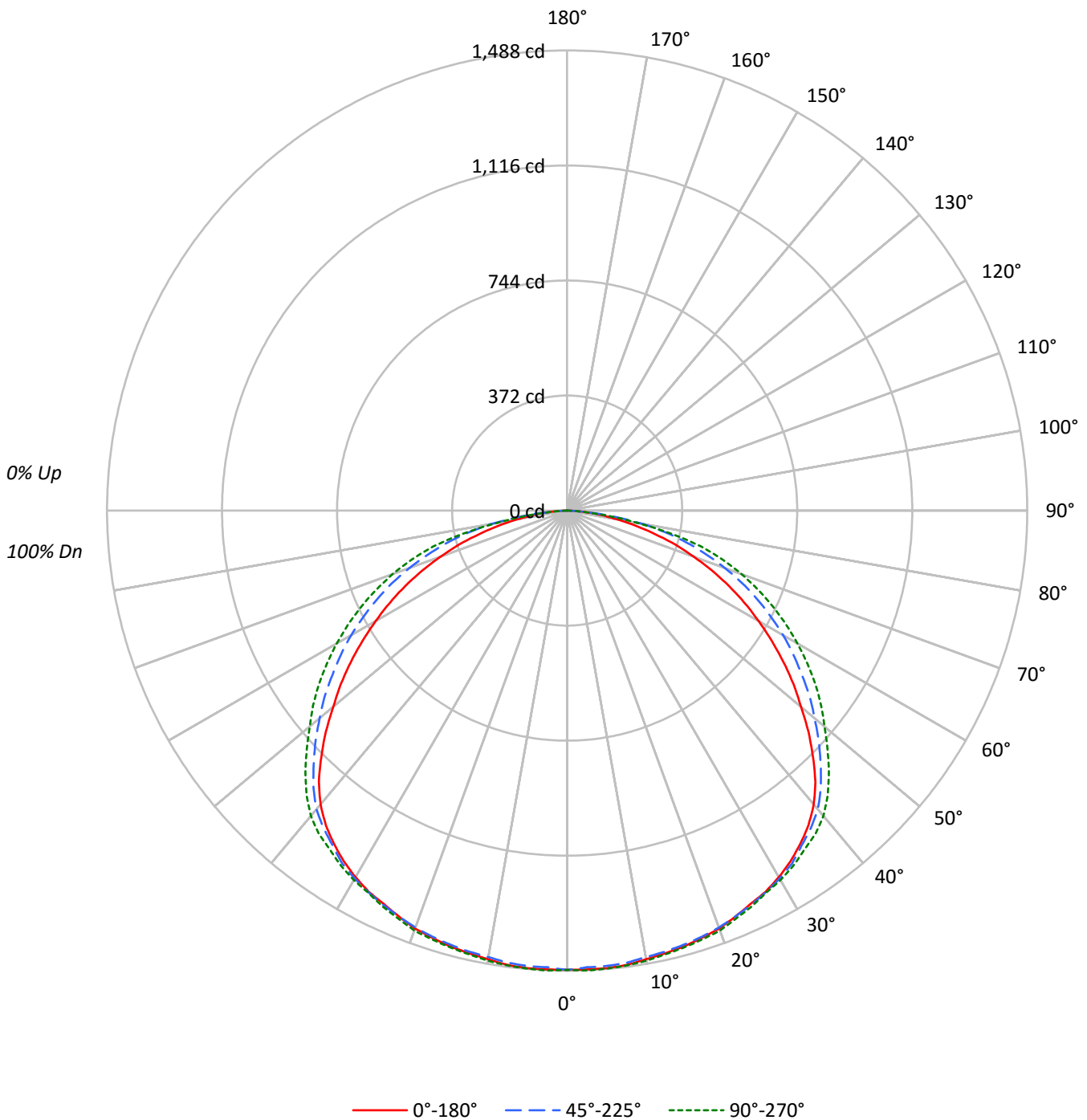
Input Watts (W): 38.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°	1998	1998	1998
5°	2006	1996	2008
10°	2012	2003	2019
15°	2032	2025	2037
20°	2059	2054	2069
25°	2084	2089	2097
30°	2127	2135	2143
35°	2160	2171	2197
40°	2179	2215	2264
45°	2139	2205	2278
50°	2066	2186	2273
55°	2002	2173	2299
60°	1924	2171	2316
65°	1839	2160	2337
70°	1713	2136	2362
75°	1533	2084	2327
80°	1277	1922	1788
85°	965	1125	937



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.3	2.9
10°-20°	412.7	8.4
20°-30°	650.9	13.2
30°-40°	831.0	16.9
40°-50°	895.2	18.2
50°-60°	824.8	16.8
60°-70°	659.7	13.4
70°-80°	404.9	8.2
80°-90°	92.4	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°	1205.0	24.5
0°-40°	2036.0	41.4
0°-60°	3755.9	76.5
0°-90°	4912.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4912.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1485	1485	1485	1485	1485	
5°	1485	1485	1478	1487	1487	141
15°	1459	1461	1454	1462	1462	413
25°	1404	1405	1407	1414	1412	649
35°	1315	1318	1322	1336	1338	822
45°	1124	1136	1159	1188	1197	866
55°	854	876	926	968	980	763
65°	578	616	678	720	734	571
75°	295	342	401	437	448	314
85°	62	83	73	64	61	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1485.1	1485.1	1485.1	1485.1	1485.1
2.5°	1485.1	1486.8	1478.1	1486.8	1488.5
5°	1485.1	1485.1	1478.1	1486.8	1486.8
7.5°	1481.6	1481.6	1474.6	1483.3	1483.3
10°	1472.9	1472.9	1466.0	1474.6	1478.1
12.5°	1466.0	1466.0	1460.8	1469.4	1469.4
15°	1459.0	1460.8	1453.8	1462.5	1462.5
17.5°	1448.6	1448.6	1445.2	1452.1	1453.8
20°	1438.2	1438.2	1434.7	1443.4	1445.2
22.5°	1420.9	1422.6	1420.9	1427.8	1427.8
25°	1403.5	1405.3	1407.0	1413.9	1412.2
27.5°	1389.6	1391.4	1391.4	1398.3	1393.1
30°	1368.8	1374.0	1374.0	1377.5	1379.2
32.5°	1344.5	1351.5	1353.2	1360.1	1361.9
35°	1315.0	1318.5	1322.0	1335.9	1337.6
37.5°	1282.1	1290.8	1294.2	1313.3	1318.5
40°	1240.4	1250.8	1261.3	1285.5	1289.0
42.5°	1188.4	1200.5	1214.4	1240.4	1247.4
45°	1124.2	1136.3	1158.9	1188.4	1197.1
47.5°	1058.3	1072.2	1103.4	1134.6	1141.6
50°	987.1	1008.0	1044.4	1080.8	1086.0
52.5°	923.0	943.8	988.9	1027.0	1035.7
55°	853.6	876.1	926.4	968.1	980.2
57.5°	784.2	813.7	867.4	909.1	921.2
60°	714.8	746.0	806.7	844.9	860.5
62.5°	647.1	681.8	742.5	785.9	798.0
65°	577.7	615.9	678.3	720.0	733.9
67.5°	506.6	546.5	612.4	654.0	667.9
70°	435.5	480.6	543.0	588.1	600.3
72.5°	367.8	409.4	471.9	511.8	527.4
75°	294.9	341.8	400.8	437.2	447.6
77.5°	229.0	274.1	326.2	348.7	345.2
80°	164.8	211.7	248.1	241.1	230.7
82.5°	111.0	149.2	154.4	144.0	140.5
85°	62.5	83.3	72.9	64.2	60.7
87.5°	26.0	22.6	12.1	5.2	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)