

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: P302256

Luminaire Tested: **RX-WO-50H840-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302256  
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: RX-WO-50H840-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
ROUND LENS, HIGH PERFORMANCE LUMEN PACKAGE.  
Light Source: (336)4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

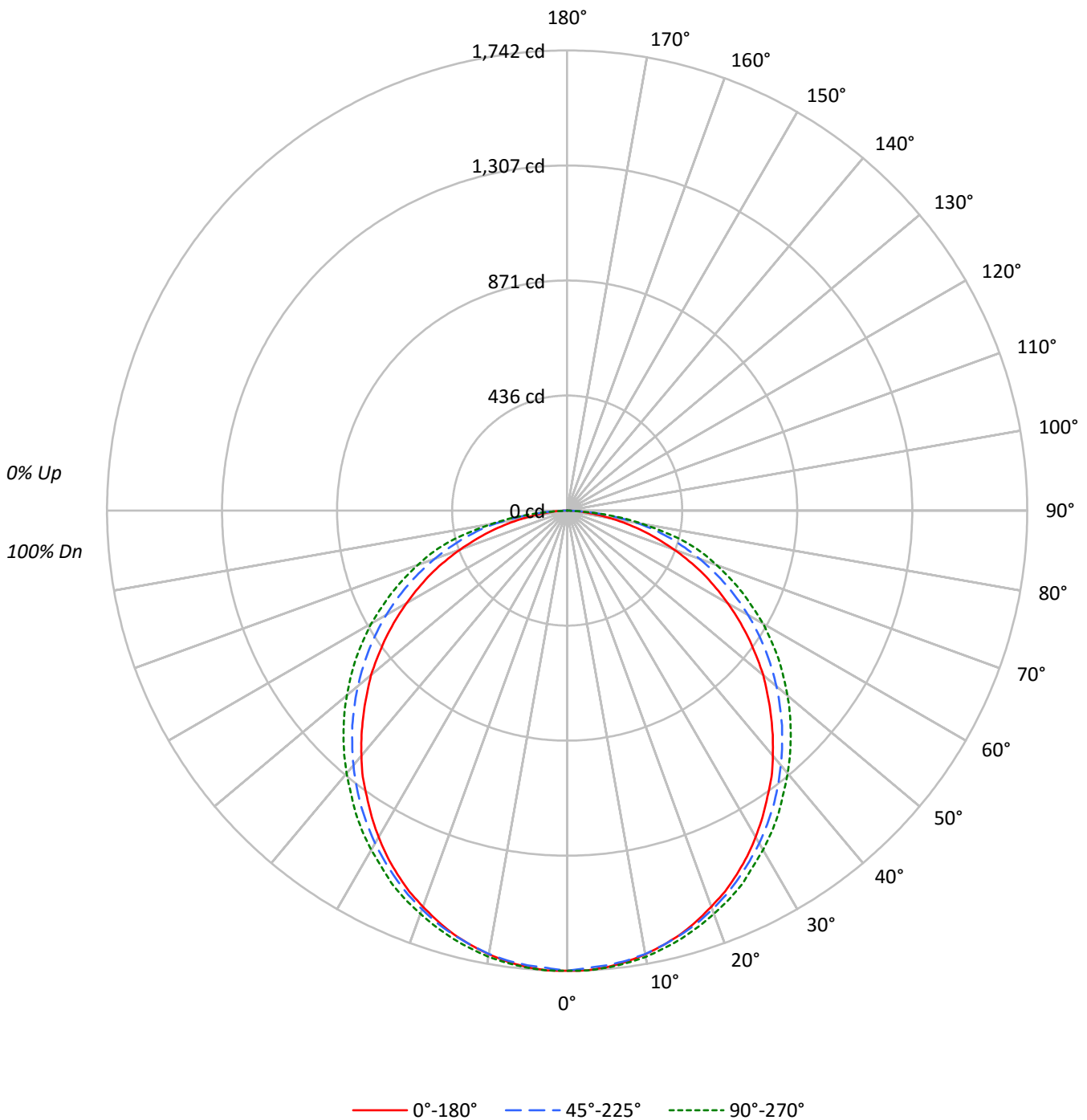
Lumens per Lamp: N/A  
Luminaire Lumens: 5071.3 lumens  
Efficiency: N/A  
Efficacy: 139.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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



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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	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°	2344	2344	2344
5°	2343	2334	2346
10°	2331	2328	2343
15°	2313	2316	2336
20°	2285	2300	2326
25°	2256	2280	2320
30°	2217	2259	2305
35°	2172	2237	2293
40°	2128	2211	2281
45°	2075	2188	2278
50°	2028	2165	2278
55°	1963	2145	2290
60°	1891	2130	2305
65°	1816	2110	2324
70°	1696	2095	2365
75°	1544	2100	2439
80°	1277	2077	2245
85°	979	1650	1593



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.7	3.2
10°-20°	470.4	9.3
20°-30°	709.6	14.0
30°-40°	851.9	16.8
40°-50°	885.9	17.5
50°-60°	814.8	16.1
60°-70°	649.4	12.8
70°-80°	411.5	8.1
80°-90°	113.2	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°	1344.6	26.5
0°-40°	2196.5	43.3
0°-60°	3897.2	76.8
0°-90°	5071.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5071.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1735	1735	1728	1737	1737	165
15°	1661	1661	1663	1675	1677	468
25°	1520	1527	1536	1558	1563	700
35°	1322	1337	1362	1387	1396	828
45°	1090	1114	1150	1186	1197	842
55°	837	864	915	960	976	748
65°	570	600	663	714	730	562
75°	297	335	404	455	469	312
85°	63	91	107	105	103	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1742.2	1742.2	1742.2	1742.2	1742.2
2.5°	1742.2	1742.2	1733.2	1742.2	1742.2
5°	1735.0	1735.0	1727.8	1736.8	1736.8
7.5°	1722.3	1724.1	1718.7	1727.8	1727.8
10°	1706.0	1707.8	1704.2	1715.1	1715.1
12.5°	1684.3	1686.1	1684.3	1697.0	1697.0
15°	1660.8	1660.8	1662.6	1675.2	1677.0
17.5°	1630.0	1633.6	1637.2	1651.7	1651.7
20°	1595.6	1601.0	1606.4	1624.5	1624.5
22.5°	1561.1	1566.6	1573.8	1591.9	1595.6
25°	1519.5	1526.7	1535.8	1557.5	1563.0
27.5°	1476.0	1481.5	1495.9	1519.5	1521.3
30°	1427.1	1436.2	1454.3	1477.8	1483.3
32.5°	1376.4	1389.1	1409.0	1436.2	1441.6
35°	1322.1	1336.6	1361.9	1387.3	1396.3
37.5°	1271.4	1282.2	1311.2	1340.2	1345.6
40°	1211.6	1227.9	1258.7	1291.3	1298.5
42.5°	1151.8	1170.0	1204.4	1237.0	1249.6
45°	1090.3	1113.8	1150.0	1186.3	1197.1
47.5°	1028.7	1054.0	1092.1	1131.9	1144.6
50°	968.9	992.5	1034.1	1075.8	1088.5
52.5°	901.9	929.1	974.4	1019.6	1032.3
55°	836.7	863.9	914.6	959.9	976.2
57.5°	769.7	800.5	853.0	900.1	914.6
60°	702.7	735.3	791.4	838.5	856.6
62.5°	635.7	666.5	728.0	775.1	791.4
65°	570.5	599.5	662.9	713.6	729.9
67.5°	499.9	532.5	597.7	650.2	664.7
70°	431.0	463.6	532.5	586.8	601.3
72.5°	360.4	398.4	467.3	519.8	539.7
75°	297.0	335.0	403.9	454.6	469.1
77.5°	230.0	268.0	338.7	374.9	376.7
80°	164.8	208.3	268.0	282.5	289.8
82.5°	108.7	150.3	184.7	202.8	202.8
85°	63.4	90.6	106.9	105.0	103.2
87.5°	23.5	30.8	25.4	18.1	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)