

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: P302375

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302375  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: RX-WO-50L840-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
ROUND LENS, STANDARD LUMEN PACKAGE.  
Light Source: (224)4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

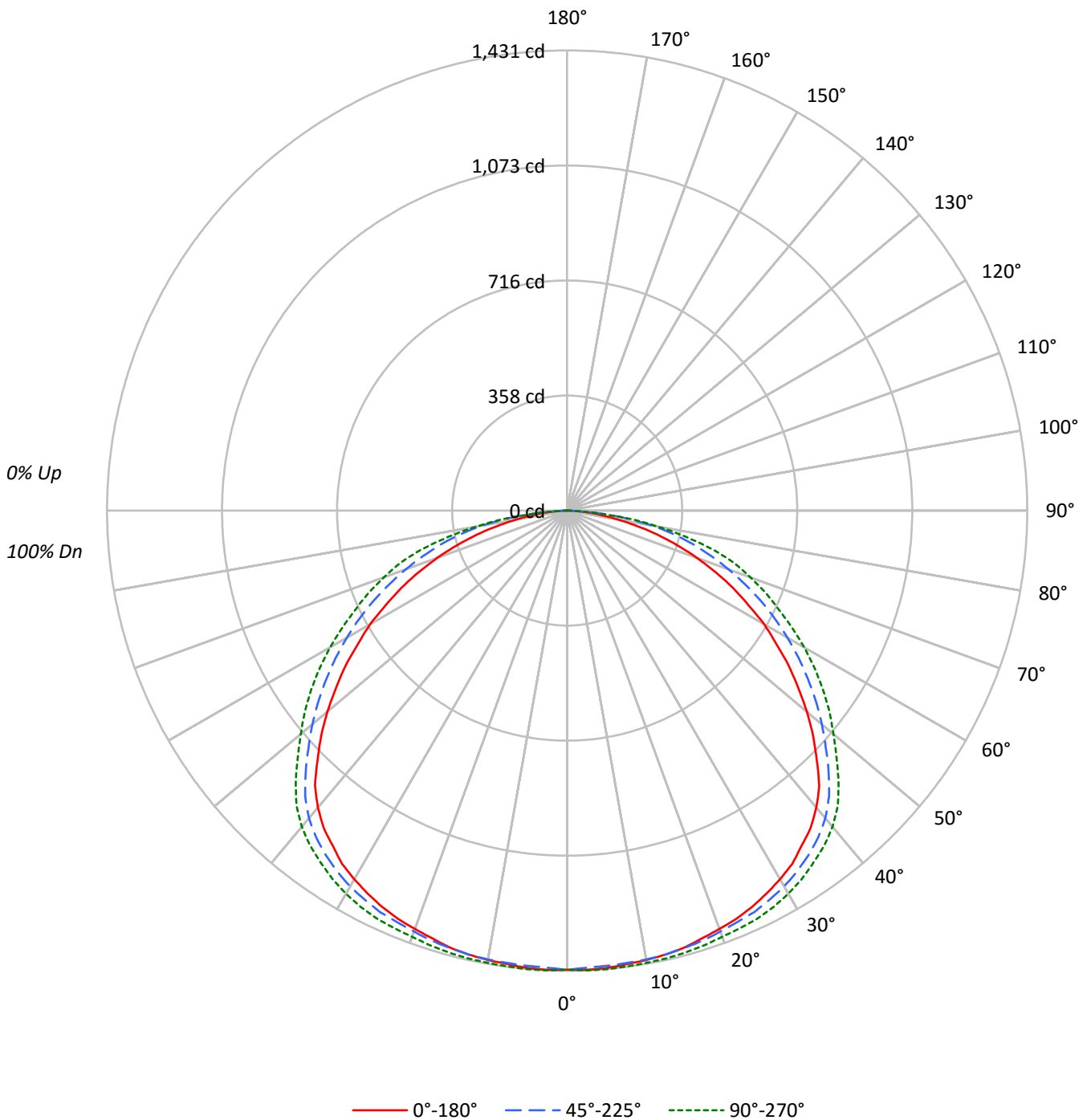
Lumens per Lamp: N/A  
Luminaire Lumens: 4862.1 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Spacing Criteria (0/90/45): 1.38 / 1.43 / 1.51  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	98	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	35	30		40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1921	1921	1921
5°	1928	1919	1933
10°	1939	1937	1951
15°	1960	1962	1982
20°	1982	1995	2020
25°	2019	2045	2078
30°	2057	2097	2137
35°	2089	2149	2194
40°	2118	2194	2255
45°	2090	2189	2271
50°	2037	2164	2262
55°	1974	2145	2279
60°	1905	2129	2292
65°	1812	2116	2309
70°	1686	2102	2382
75°	1515	2111	2444
80°	1250	2084	2232
85°	911	1553	1447



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.0	2.8
10°-20°	399.8	8.2
20°-30°	636.8	13.1
30°-40°	818.6	16.8
40°-50°	885.2	18.2
50°-60°	814.3	16.7
60°-70°	649.2	13.4
70°-80°	412.4	8.5
80°-90°	109.9	2.3
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°	1172.6	24.1
0°-40°	1991.2	41.0
0°-60°	3690.7	75.9
0°-90°	4862.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4862.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1428	1428	1421	1430	1431	136
15°	1407	1409	1409	1421	1423	398
25°	1360	1365	1378	1393	1400	628
35°	1272	1286	1308	1332	1336	797
45°	1098	1117	1150	1182	1194	847
55°	841	866	914	956	972	751
65°	569	598	664	713	725	562
75°	292	333	406	460	470	308
85°	59	92	101	101	94	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1427.8	1427.8	1427.8	1427.8	1427.8
2.5°	1429.5	1429.5	1422.6	1431.3	1431.3
5°	1427.8	1427.8	1420.9	1429.5	1431.3
7.5°	1422.6	1424.3	1419.1	1427.8	1429.5
10°	1419.1	1420.9	1417.4	1426.1	1427.8
12.5°	1413.9	1415.7	1413.9	1424.3	1426.1
15°	1407.0	1408.7	1408.7	1420.9	1422.6
17.5°	1394.8	1398.3	1401.8	1415.7	1417.4
20°	1384.4	1387.9	1393.1	1408.7	1410.5
22.5°	1374.0	1377.5	1384.4	1403.5	1405.3
25°	1360.1	1365.4	1377.5	1393.1	1400.0
27.5°	1342.8	1353.2	1363.6	1382.7	1389.6
30°	1323.7	1334.1	1349.7	1370.6	1375.8
32.5°	1302.9	1313.3	1330.7	1353.2	1358.4
35°	1271.7	1285.5	1308.1	1332.4	1335.9
37.5°	1243.9	1257.8	1282.1	1308.1	1313.3
40°	1205.7	1223.1	1249.1	1273.4	1283.8
42.5°	1160.6	1178.0	1205.7	1235.2	1245.6
45°	1098.2	1117.3	1150.2	1181.5	1193.6
47.5°	1037.5	1054.8	1091.2	1127.7	1136.3
50°	973.3	994.1	1034.0	1072.2	1080.8
52.5°	905.6	931.6	975.0	1014.9	1028.8
55°	841.4	865.7	914.3	955.9	971.5
57.5°	770.3	799.8	853.6	898.7	912.5
60°	707.8	733.9	791.1	837.9	851.8
62.5°	635.0	666.2	728.6	775.5	787.6
65°	569.0	598.5	664.5	713.0	725.2
67.5°	497.9	532.6	598.5	648.8	667.9
70°	428.5	464.9	534.3	586.4	605.5
72.5°	359.1	399.0	468.4	522.2	546.5
75°	291.5	333.1	406.0	459.7	470.2
77.5°	223.8	270.6	340.0	378.2	378.2
80°	161.3	208.2	268.9	279.3	288.0
82.5°	107.6	150.9	183.9	194.3	196.0
85°	59.0	91.9	100.6	100.6	93.7
87.5°	22.6	29.5	20.8	10.4	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)