

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: P302036

Luminaire Tested: **RX-WO-44L840-UNV-14-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302036  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: RX-WO-44L840-UNV-14-STD  
Description: CORELITE CLASS RX 1X4 LED LUMINAIRE.  
ROUND LENS  
Light Source: (112)4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

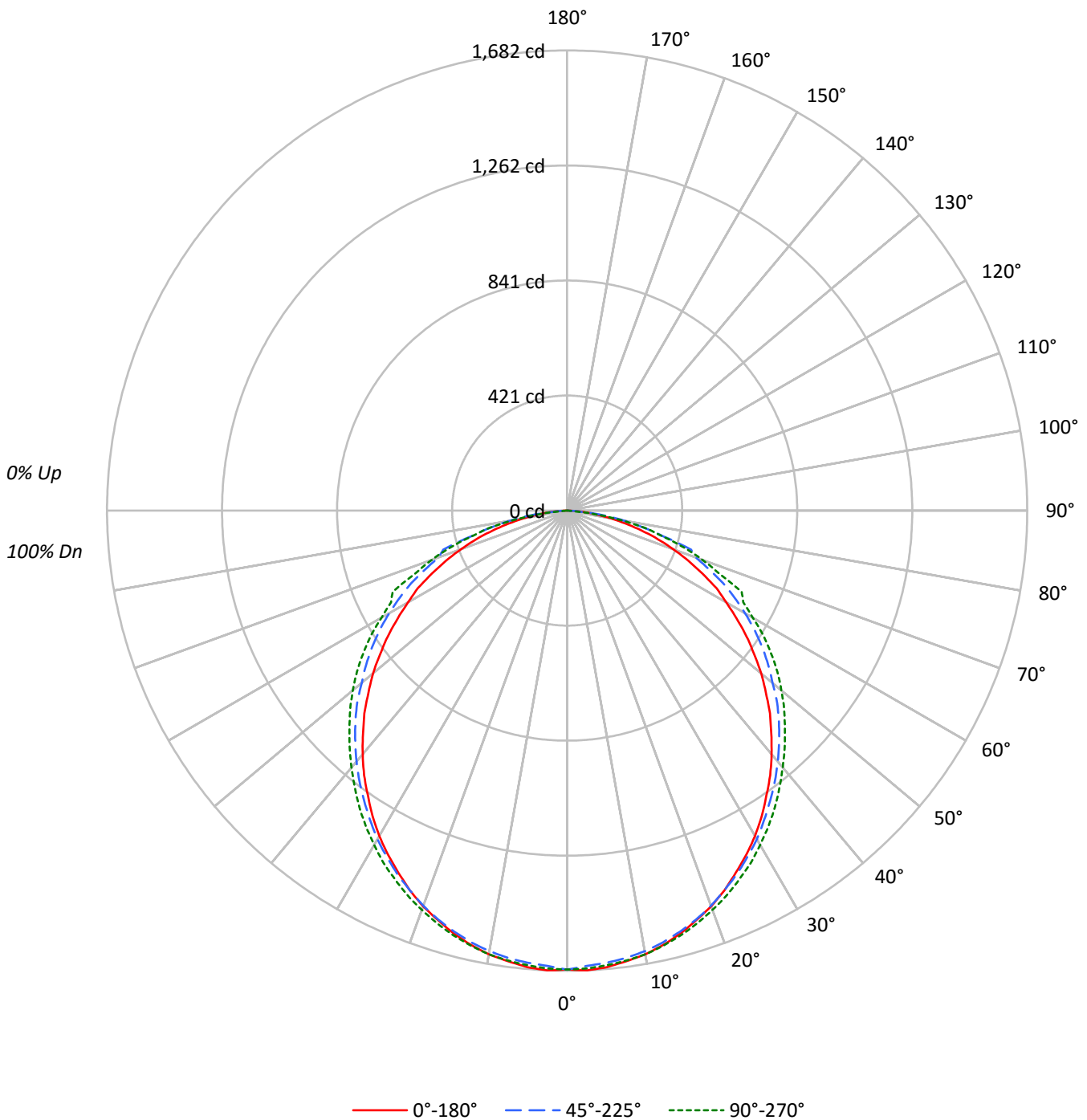
Lumens per Lamp: N/A  
Luminaire Lumens: 4769.6 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.3  
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	109	104	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	83
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46		57	50	45		55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

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

	0°	45°	90°
0°	4514	4514	4514
5°	4525	4481	4506
10°	4501	4469	4501
15°	4458	4439	4478
20°	4408	4402	4449
25°	4335	4355	4418
30°	4267	4311	4384
35°	4173	4250	4350
40°	4085	4208	4306
45°	3989	4167	4282
50°	3879	4104	4280
55°	3754	4083	4270
60°	3614	4042	4218
65°	3471	4007	4484
70°	3240	3921	4142
75°	2918	3795	3722
80°	2466	3264	3082
85°	1806	1590	577



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.4	3.3
10°-20°	451.5	9.5
20°-30°	678.7	14.2
30°-40°	811.9	17.0
40°-50°	841.8	17.6
50°-60°	771.9	16.2
60°-70°	614.1	12.9
70°-80°	364.9	7.6
80°-90°	76.5	1.6
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°	1288.6	27.0
0°-40°	2100.5	44.0
0°-60°	3714.2	77.9
0°-90°	4769.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4769.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1678	1678	1678	1678	1678	
5°	1675	1670	1659	1670	1668	159
15°	1600	1598	1593	1607	1607	451
25°	1460	1462	1467	1488	1488	673
35°	1270	1277	1294	1320	1324	795
45°	1048	1064	1095	1118	1125	807
55°	800	828	870	905	910	714
65°	545	578	629	655	704	540
75°	281	320	365	363	358	298
85°	58	72	52	28	19	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1677.5	1677.5	1677.5	1677.5	1677.5
2.5°	1682.2	1677.5	1665.8	1677.5	1675.1
5°	1675.1	1670.5	1658.8	1670.5	1668.1
7.5°	1661.1	1658.8	1649.4	1661.1	1658.8
10°	1647.1	1642.4	1635.4	1647.1	1647.1
12.5°	1626.0	1621.3	1616.6	1630.7	1628.3
15°	1600.3	1597.9	1593.3	1607.3	1607.3
17.5°	1569.9	1569.9	1567.5	1581.6	1581.6
20°	1539.4	1537.1	1537.1	1553.5	1553.5
22.5°	1502.0	1502.0	1502.0	1523.1	1523.1
25°	1459.9	1462.2	1466.9	1488.0	1488.0
27.5°	1417.8	1422.5	1427.1	1448.2	1452.9
30°	1373.3	1375.7	1387.4	1408.4	1410.8
32.5°	1324.2	1328.9	1340.6	1364.0	1368.7
35°	1270.4	1277.4	1293.8	1319.5	1324.2
37.5°	1218.9	1228.3	1247.0	1272.7	1275.1
40°	1162.8	1174.5	1197.9	1221.3	1225.9
42.5°	1104.3	1118.3	1146.4	1172.1	1176.8
45°	1048.1	1064.5	1094.9	1118.3	1125.3
47.5°	985.0	1003.7	1041.1	1069.2	1076.2
50°	926.5	945.2	980.3	1015.4	1022.4
52.5°	861.0	886.7	926.5	961.6	968.6
55°	800.1	828.2	870.3	905.4	910.1
57.5°	734.6	765.0	811.8	844.6	851.6
60°	671.5	704.2	751.0	781.4	783.8
62.5°	615.3	643.4	690.2	718.3	725.3
65°	545.1	577.9	629.3	655.1	704.2
67.5°	479.6	512.4	561.5	648.1	601.3
70°	411.8	449.2	498.3	521.7	526.4
72.5°	348.6	386.0	474.9	449.2	446.9
75°	280.7	320.5	365.0	362.6	358.0
77.5°	217.6	259.7	285.4	287.8	287.8
80°	159.1	210.6	210.6	210.6	198.9
82.5°	102.9	135.7	135.7	117.0	105.3
85°	58.5	72.5	51.5	28.1	18.7
87.5°	21.1	16.4	4.7	4.7	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)