

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: P302214

Luminaire Tested: **ZX-WO-44L840-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302214  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-40)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: ZX-WO-44L840-UNV-22-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, STANDARD LUMEN PACKAGE.  
Light Source: (196)4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4500.3 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

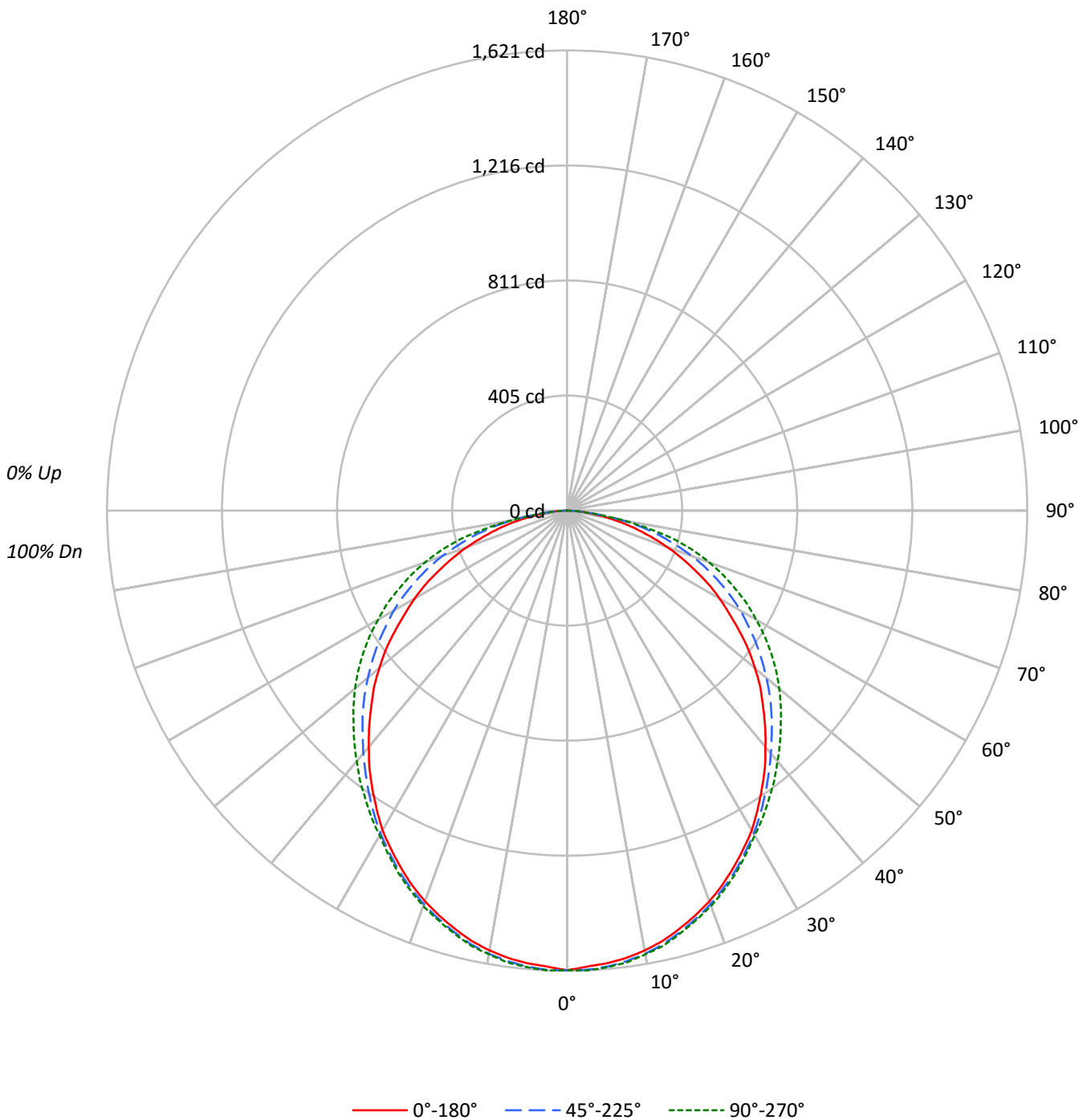
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	62	56	52	49
5	76	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	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°	4357	4357	4357
5°	4324	4355	4361
10°	4300	4331	4337
15°	4251	4283	4295
20°	4194	4227	4246
25°	4119	4159	4179
30°	4042	4084	4105
35°	3929	3997	4072
40°	3818	3922	4050
45°	3713	3877	4050
50°	3617	3836	4084
55°	3478	3809	4118
60°	3341	3794	4137
65°	3156	3750	4170
70°	2952	3686	4187
75°	2648	3500	4043
80°	2221	3065	3101
85°	1757	1757	1405



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.8	3.4
10°-20°	433.0	9.6
20°-30°	644.4	14.3
30°-40°	762.2	16.9
40°-50°	787.6	17.5
50°-60°	724.2	16.1
60°-70°	575.9	12.8
70°-80°	344.9	7.7
80°-90°	75.2	1.7
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°	1230.2	27.3
0°-40°	1992.5	44.3
0°-60°	3504.3	77.9
0°-90°	4500.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4500.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1619	1619	1619	1619	1619	
5°	1601	1606	1612	1615	1615	152
15°	1526	1530	1537	1542	1542	430
25°	1387	1392	1401	1408	1408	639
35°	1196	1203	1217	1232	1239	748
45°	976	985	1019	1055	1064	754
55°	741	757	812	862	878	663
65°	496	525	589	641	655	493
75°	255	289	337	375	389	270
85°	57	61	57	52	46	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1619.1	1619.1	1619.1	1619.1	1619.1
2.5°	1607.7	1612.3	1619.1	1621.4	1621.4
5°	1600.9	1605.5	1612.3	1614.6	1614.6
7.5°	1589.6	1594.1	1600.9	1603.2	1605.5
10°	1573.6	1578.2	1585.0	1587.3	1587.3
12.5°	1553.2	1555.4	1564.5	1566.8	1569.1
15°	1525.9	1530.4	1537.3	1541.8	1541.8
17.5°	1496.3	1500.9	1507.7	1512.2	1512.2
20°	1464.5	1469.0	1475.9	1480.4	1482.7
22.5°	1428.1	1432.6	1439.5	1446.3	1446.3
25°	1387.2	1391.7	1400.8	1407.6	1407.6
27.5°	1344.0	1348.5	1357.6	1364.4	1364.4
30°	1300.8	1303.0	1314.4	1318.9	1321.2
32.5°	1248.4	1255.3	1266.6	1275.7	1282.6
35°	1196.1	1203.0	1216.6	1232.5	1239.4
37.5°	1143.8	1150.7	1166.6	1189.3	1198.4
40°	1087.0	1096.1	1116.6	1146.1	1152.9
42.5°	1032.4	1043.8	1066.5	1100.6	1109.7
45°	975.6	984.7	1018.8	1055.2	1064.3
47.5°	923.3	930.1	968.7	1009.7	1021.0
50°	864.1	873.2	916.4	961.9	975.6
52.5°	805.0	816.4	864.1	911.9	927.8
55°	741.3	757.3	811.8	861.9	877.8
57.5°	677.7	700.4	757.3	807.3	825.5
60°	620.8	641.3	705.0	752.7	768.6
62.5°	561.7	584.4	648.1	695.9	716.3
65°	495.7	525.3	589.0	641.3	654.9
67.5°	436.6	466.2	529.9	577.6	595.8
70°	375.2	409.3	468.5	511.7	532.1
72.5°	311.5	347.9	400.2	445.7	466.2
75°	254.7	288.8	336.6	375.2	388.9
77.5°	197.8	229.7	268.3	291.1	295.6
80°	143.3	168.3	197.8	202.4	200.1
82.5°	95.5	113.7	122.8	118.3	118.3
85°	56.9	61.4	56.9	52.3	45.5
87.5°	20.5	18.2	13.6	9.1	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)