

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: P302211

Luminaire Tested: **ZX-WO-29L840-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302211  
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-29L840-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**

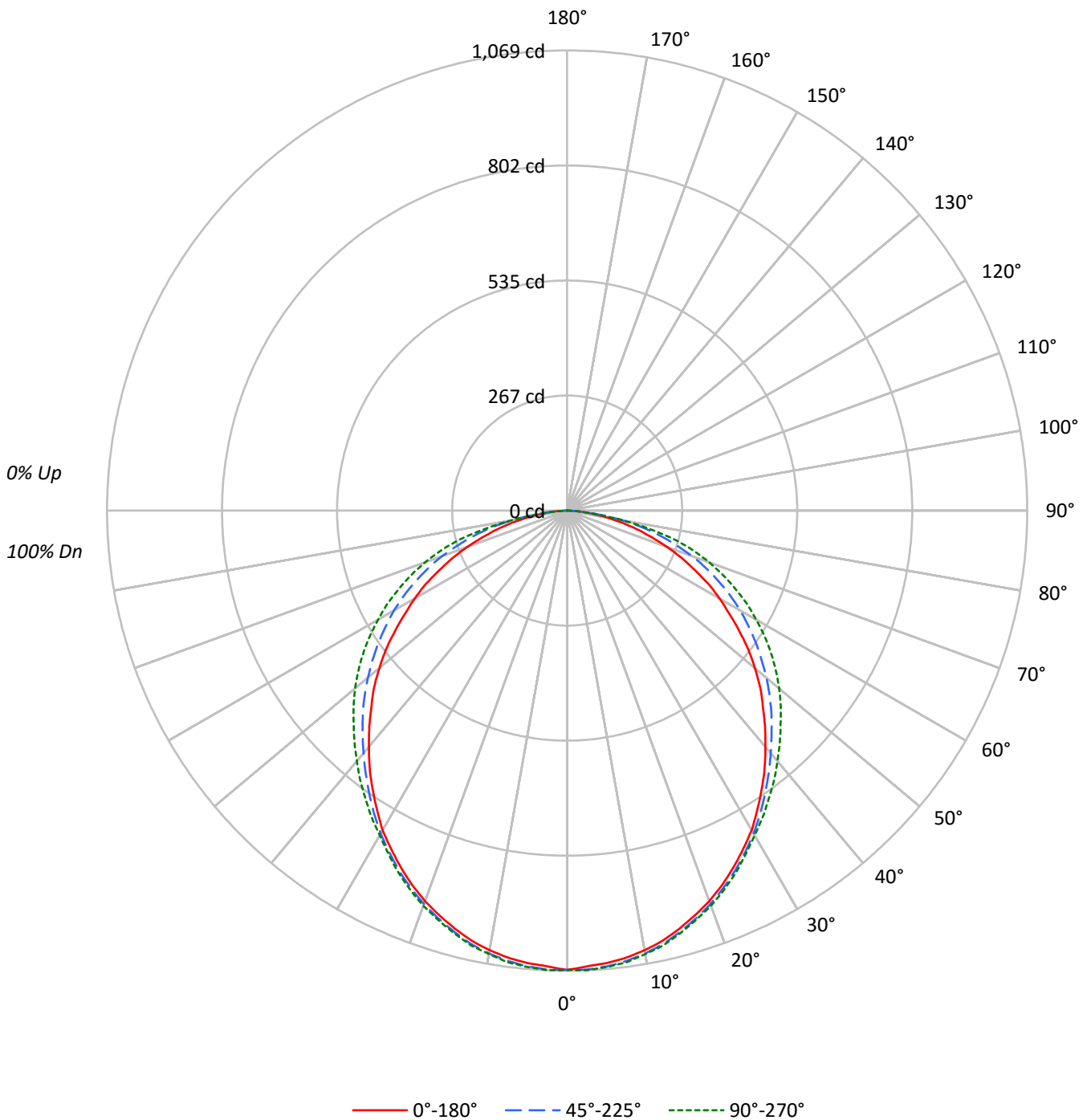
Lumens per Lamp: N/A  
Luminaire Lumens: 2966.0 lumens  
Efficiency: N/A  
Efficacy: 133.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 22.2  
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°	2872	2872	2872
5°	2850	2870	2874
10°	2834	2854	2858
15°	2802	2823	2831
20°	2764	2786	2798
25°	2715	2741	2754
30°	2664	2692	2706
35°	2590	2634	2683
40°	2517	2585	2669
45°	2447	2555	2669
50°	2384	2529	2692
55°	2292	2510	2714
60°	2202	2500	2726
65°	2080	2472	2748
70°	1946	2429	2759
75°	1746	2306	2665
80°	1463	2021	2044
85°	1158	1158	926



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.7	3.4
10°-20°	285.4	9.6
20°-30°	424.7	14.3
30°-40°	502.4	16.9
40°-50°	519.1	17.5
50°-60°	477.3	16.1
60°-70°	379.5	12.8
70°-80°	227.3	7.7
80°-90°	49.6	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°	810.8	27.3
0°-40°	1313.2	44.3
0°-60°	2309.6	77.9
0°-90°	2966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2966.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1055	1058	1063	1064	1064	100
15°	1006	1009	1013	1016	1016	284
25°	914	917	923	928	928	421
35°	788	793	802	812	817	493
45°	643	649	672	695	701	497
55°	489	499	535	568	578	437
65°	327	346	388	423	432	325
75°	168	190	222	247	256	178
85°	38	40	38	34	30	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1067.1	1067.1	1067.1	1067.1	1067.1
2.5°	1059.6	1062.6	1067.1	1068.6	1068.6
5°	1055.1	1058.1	1062.6	1064.1	1064.1
7.5°	1047.6	1050.6	1055.1	1056.6	1058.1
10°	1037.2	1040.1	1044.6	1046.1	1046.1
12.5°	1023.7	1025.2	1031.2	1032.7	1034.2
15°	1005.7	1008.7	1013.2	1016.2	1016.2
17.5°	986.2	989.2	993.7	996.7	996.7
20°	965.2	968.2	972.7	975.7	977.2
22.5°	941.2	944.2	948.7	953.2	953.2
25°	914.3	917.3	923.2	927.7	927.7
27.5°	885.8	888.8	894.8	899.3	899.3
30°	857.3	858.8	866.3	869.3	870.8
32.5°	822.8	827.3	834.8	840.8	845.3
35°	788.4	792.9	801.8	812.3	816.8
37.5°	753.9	758.4	768.9	783.9	789.9
40°	716.4	722.4	735.9	755.4	759.9
42.5°	680.4	687.9	702.9	725.4	731.4
45°	643.0	649.0	671.5	695.4	701.4
47.5°	608.5	613.0	638.5	665.5	672.9
50°	569.5	575.5	604.0	634.0	643.0
52.5°	530.6	538.1	569.5	601.0	611.5
55°	488.6	499.1	535.1	568.0	578.5
57.5°	446.6	461.6	499.1	532.1	544.1
60°	409.2	422.7	464.6	496.1	506.6
62.5°	370.2	385.2	427.2	458.6	472.1
65°	326.7	346.2	388.2	422.7	431.6
67.5°	287.8	307.2	349.2	380.7	392.7
70°	247.3	269.8	308.7	337.2	350.7
72.5°	205.3	229.3	263.8	293.8	307.2
75°	167.9	190.3	221.8	247.3	256.3
77.5°	130.4	151.4	176.9	191.8	194.8
80°	94.4	110.9	130.4	133.4	131.9
82.5°	62.9	74.9	80.9	77.9	77.9
85°	37.5	40.5	37.5	34.5	30.0
87.5°	13.5	12.0	9.0	6.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)