

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: P302057

Luminaire Tested: **ZX-WO-29L830-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-29L830-UNV-14-STD
Description: CORELITE CLASS RX 1X4 LED LUMINAIRE.
FLAT LENS
Light Source: (84)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2931.2 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

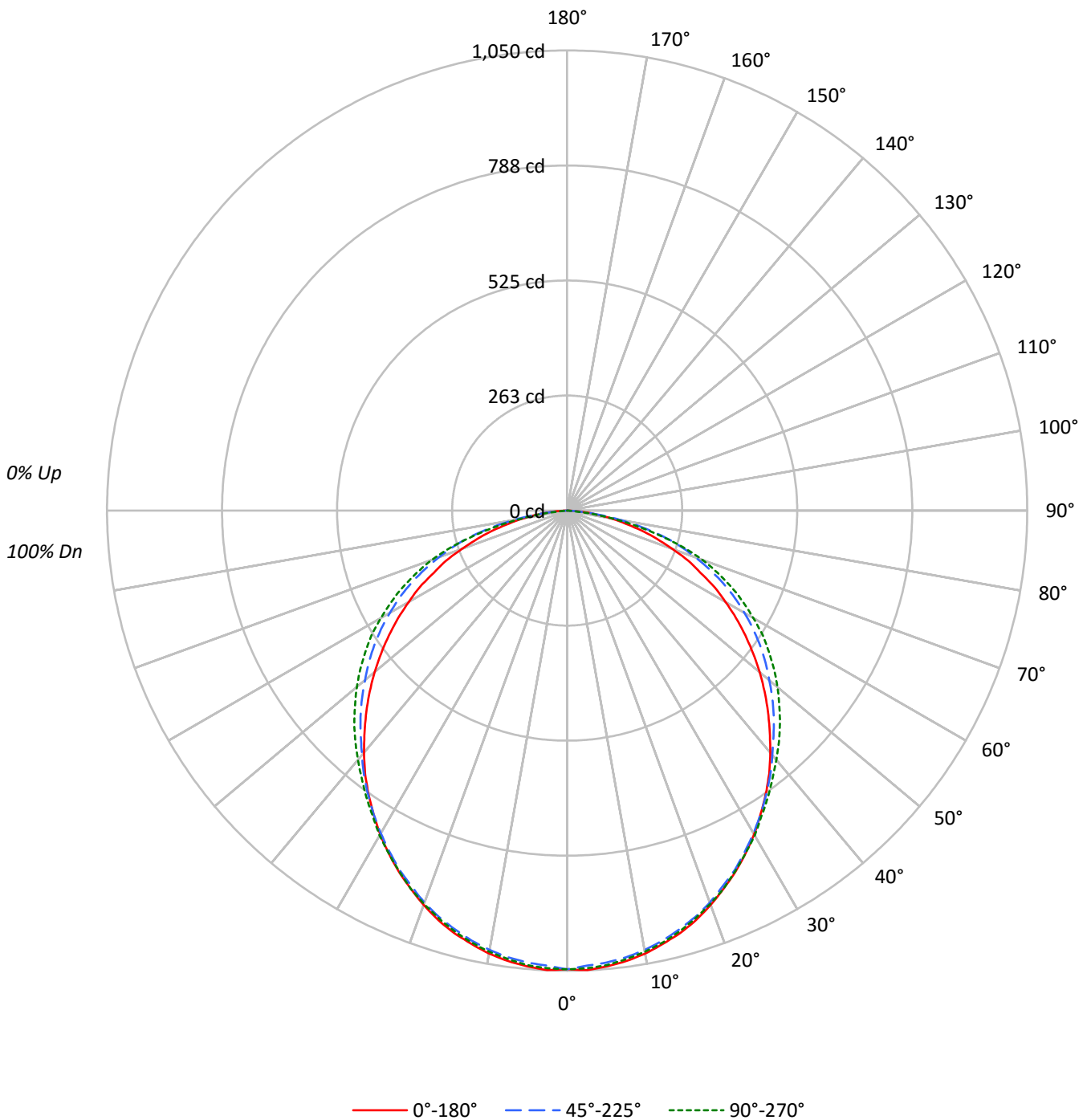
Input Watts (W): 24.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	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	46	38	32	59	46	38	32	44	37	32	43	36	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°	2817	2817	2817
5°	2820	2796	2812
10°	2805	2782	2793
15°	2780	2756	2768
20°	2743	2727	2735
25°	2699	2687	2695
30°	2651	2642	2660
35°	2596	2600	2624
40°	2533	2559	2609
45°	2466	2537	2614
50°	2401	2521	2623
55°	2327	2523	2637
60°	2246	2516	2639
65°	2136	2502	2639
70°	2008	2448	2584
75°	1818	2340	2266
80°	1556	1889	1666
85°	1105	886	266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	3.4
10°-20°	280.3	9.6
20°-30°	418.0	14.3
30°-40°	496.7	16.9
40°-50°	515.5	17.6
50°-60°	476.8	16.3
60°-70°	379.8	13.0
70°-80°	222.3	7.6
80°-90°	43.1	1.5
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°	797.0	27.2
0°-40°	1293.7	44.1
0°-60°	2286.0	78.0
0°-90°	2931.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2931.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1044	1041	1035	1041	1041	99
15°	998	996	989	996	994	281
25°	909	908	905	909	908	419
35°	790	790	792	797	799	494
45°	648	655	667	682	687	500
55°	496	510	538	556	562	444
65°	336	360	393	409	414	334
75°	175	204	225	222	218	185
85°	36	43	29	14	9	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1046.7	1046.7	1046.7	1046.7	1046.7
2.5°	1049.6	1046.7	1039.5	1046.7	1045.3
5°	1043.8	1041.0	1035.2	1041.0	1041.0
7.5°	1036.7	1033.8	1028.1	1033.8	1032.4
10°	1026.6	1023.8	1018.0	1023.8	1022.3
12.5°	1012.3	1010.9	1005.1	1010.9	1009.4
15°	998.0	996.5	989.4	996.5	993.7
17.5°	979.3	977.9	972.2	976.5	975.0
20°	957.8	954.9	952.1	956.4	954.9
22.5°	933.4	932.0	927.7	934.9	933.4
25°	909.1	907.6	904.8	909.1	907.6
27.5°	881.8	880.4	877.5	883.3	881.8
30°	853.1	853.1	850.3	857.4	856.0
32.5°	821.6	821.6	821.6	825.9	825.9
35°	790.1	790.1	791.5	797.2	798.7
37.5°	757.1	757.1	761.4	770.0	770.0
40°	721.2	724.1	728.4	741.3	742.7
42.5°	684.0	689.7	696.9	712.6	715.5
45°	648.1	655.3	666.7	682.5	686.8
47.5°	610.8	619.4	635.2	652.4	656.7
50°	573.5	585.0	602.2	622.3	626.6
52.5°	534.8	547.7	570.7	590.7	595.1
55°	496.1	510.5	537.7	556.3	562.1
57.5°	457.4	473.2	503.3	521.9	529.1
60°	417.3	434.5	467.4	484.6	490.4
62.5°	380.0	398.6	431.6	447.4	453.1
65°	335.5	359.9	392.9	408.6	414.4
67.5°	299.7	322.6	352.7	369.9	371.4
70°	255.2	283.9	311.1	325.5	328.4
72.5°	215.1	243.8	271.0	276.7	276.7
75°	174.9	203.6	225.1	222.2	217.9
77.5°	134.8	163.5	174.9	164.9	160.6
80°	100.4	124.7	121.9	111.8	107.5
82.5°	66.0	84.6	71.7	60.2	54.5
85°	35.8	43.0	28.7	14.3	8.6
87.5°	12.9	8.6	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)