

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: P302199

Luminaire Tested: **ZX-WO-29L830-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302199
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-29L830-UNV-22-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (196)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2848.6 lumens
Efficiency: N/A
Efficacy: 128.3 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

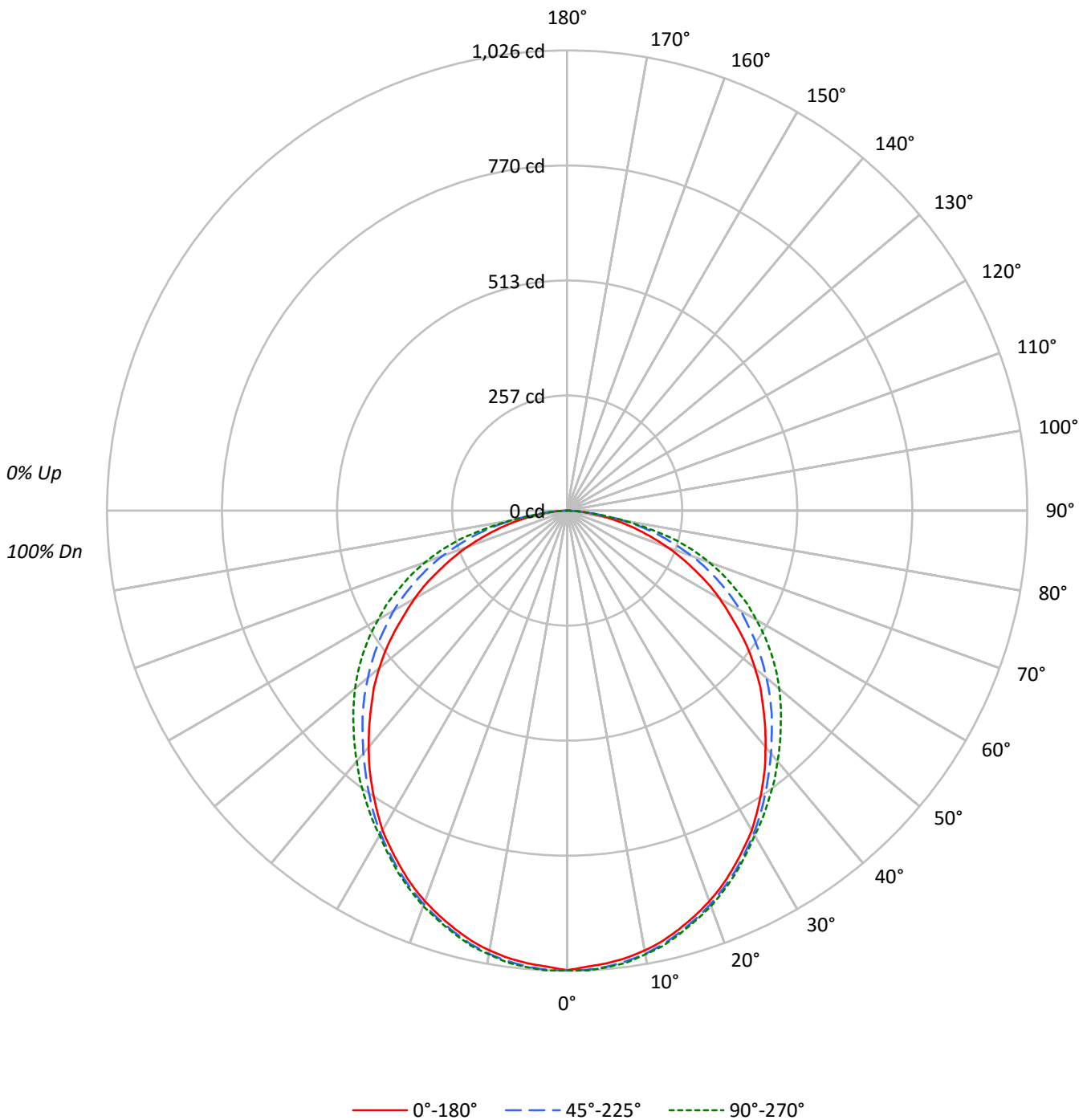
Input Watts (W): 22.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83					83			
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49					49			
5	76	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2758	2758	2758
5°	2737	2757	2761
10°	2722	2742	2745
15°	2691	2711	2719
20°	2655	2675	2688
25°	2607	2633	2646
30°	2559	2585	2599
35°	2487	2530	2577
40°	2417	2483	2564
45°	2350	2454	2564
50°	2290	2429	2585
55°	2202	2411	2607
60°	2115	2401	2618
65°	1998	2374	2640
70°	1869	2333	2650
75°	1676	2215	2559
80°	1406	1940	1963
85°	1112	1112	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.4
10°-20°	274.1	9.6
20°-30°	407.9	14.3
30°-40°	482.5	16.9
40°-50°	498.6	17.5
50°-60°	458.4	16.1
60°-70°	364.5	12.8
70°-80°	218.3	7.7
80°-90°	47.6	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°	778.7	27.3
0°-40°	1261.2	44.3
0°-60°	2218.2	77.9
0°-90°	2848.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2848.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1025	1025	1025	1025	1025	
5°	1013	1016	1021	1022	1022	96
15°	966	969	973	976	976	272
25°	878	881	887	891	891	405
35°	757	762	770	780	784	474
45°	618	623	645	668	674	477
55°	469	479	514	546	556	420
65°	314	332	373	406	415	312
75°	161	183	213	238	246	171
85°	36	39	36	33	29	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1024.9	1024.9	1024.9	1024.9	1024.9
2.5°	1017.7	1020.6	1024.9	1026.3	1026.3
5°	1013.4	1016.3	1020.6	1022.0	1022.0
7.5°	1006.2	1009.1	1013.4	1014.8	1016.3
10°	996.1	999.0	1003.3	1004.7	1004.7
12.5°	983.1	984.6	990.3	991.8	993.2
15°	965.9	968.8	973.1	976.0	976.0
17.5°	947.2	950.0	954.4	957.2	957.2
20°	927.0	929.9	934.2	937.1	938.5
22.5°	904.0	906.9	911.2	915.5	915.5
25°	878.1	880.9	886.7	891.0	891.0
27.5°	850.7	853.6	859.4	863.7	863.7
30°	823.4	824.8	832.0	834.9	836.3
32.5°	790.3	794.6	801.8	807.5	811.9
35°	757.2	761.5	770.1	780.2	784.5
37.5°	724.0	728.4	738.4	752.8	758.6
40°	688.1	693.8	706.8	725.5	729.8
42.5°	653.5	660.7	675.1	696.7	702.5
45°	617.5	623.3	644.9	667.9	673.7
47.5°	584.4	588.7	613.2	639.1	646.3
50°	547.0	552.8	580.1	608.9	617.5
52.5°	509.6	516.8	547.0	577.2	587.3
55°	469.3	479.3	513.9	545.6	555.6
57.5°	429.0	443.4	479.3	511.0	522.5
60°	393.0	405.9	446.2	476.5	486.5
62.5°	355.5	369.9	410.2	440.5	453.4
65°	313.8	332.5	372.8	405.9	414.6
67.5°	276.4	295.1	335.4	365.6	377.1
70°	237.5	259.1	296.5	323.9	336.8
72.5°	197.2	220.2	253.3	282.1	295.1
75°	161.2	182.8	213.0	237.5	246.1
77.5°	125.2	145.4	169.9	184.3	187.1
80°	90.7	106.5	125.2	128.1	126.7
82.5°	60.5	72.0	77.7	74.9	74.9
85°	36.0	38.9	36.0	33.1	28.8
87.5°	13.0	11.5	8.6	5.8	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)