

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: P189038

Luminaire Tested: **RZL-WL-30L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189038  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34814)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: RZL-WL-30L830-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH LUMINOUS SIDES AND SNAP-ON FROSTED LINEAR PRISMATIC LENS  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3175.9 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 0.53' x L: 3.83' x H: 0.12')  
CIE Type: Semi-Direct

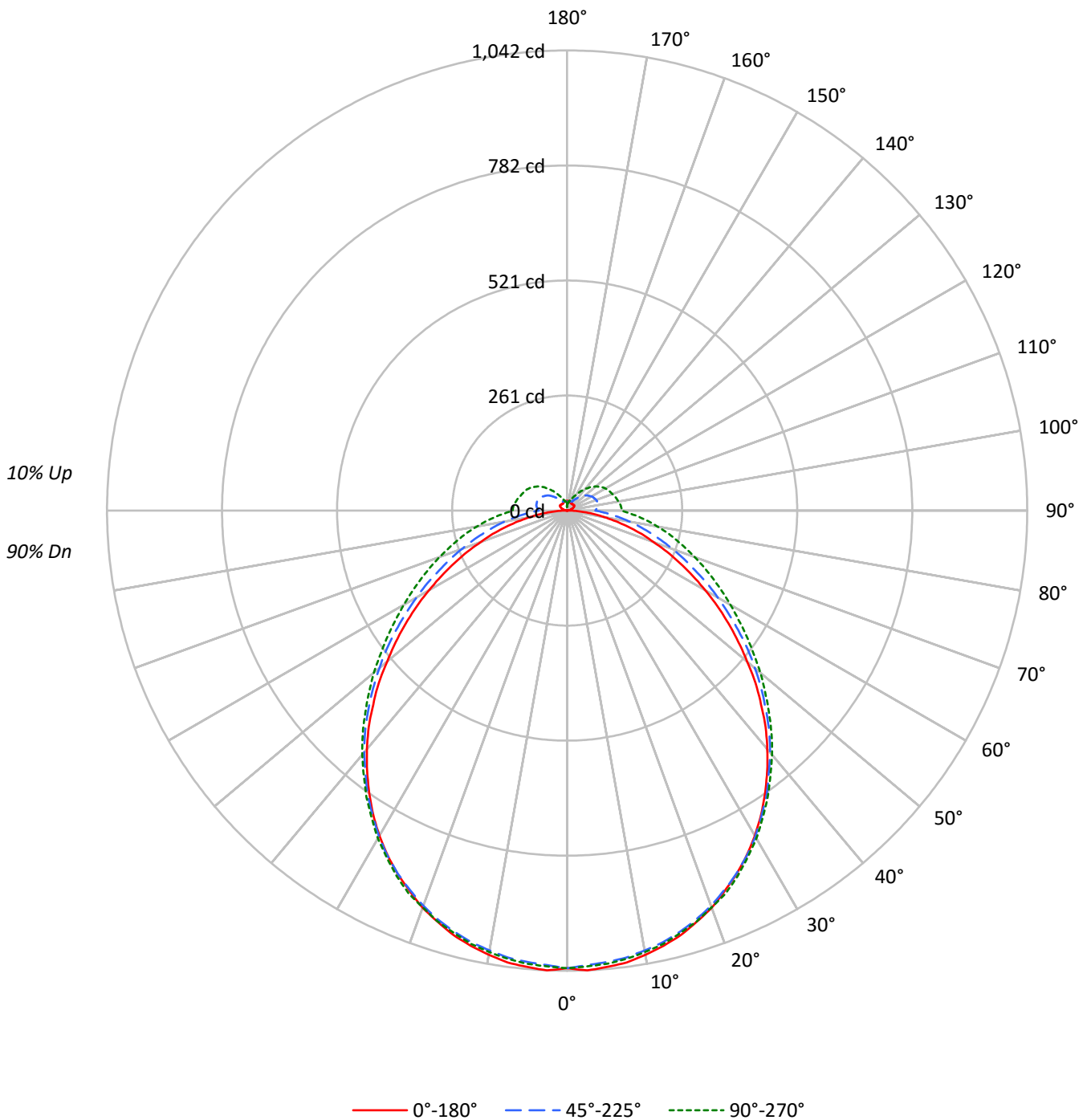
Input Watts (W): 24.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	92	92	92	90
1	106	101	96	92	102	97	93	90	91	88	85	86	83	81	80	78	76	74
2	96	88	81	75	93	85	79	73	80	75	70	75	71	67	70	67	64	61
3	88	77	69	63	84	75	67	61	70	64	59	66	61	57	62	58	54	52
4	80	68	60	53	77	66	58	52	63	56	50	59	53	49	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	38
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	32	57	45	37	31	42	35	30	40	34	30	38	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	35	30	26	24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	33	28	24	22

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

	0°	45°	90°
0°	5456	5456	5456
5°	5466	5335	5335
10°	5428	5232	5212
15°	5378	5122	5078
20°	5300	4992	4936
25°	5197	4844	4782
30°	5073	4672	4590
35°	4909	4469	4374
40°	4717	4243	4147
45°	4479	3984	3897
50°	4195	3712	3656
55°	3913	3420	3412
60°	3599	3127	3199
65°	3285	2830	3019
70°	2939	2565	2876
75°	2611	2315	2768
80°	2175	2094	2695
85°	1716	1894	2676



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.0	3.1
10°-20°	279.6	8.8
20°-30°	419.0	13.2
30°-40°	492.2	15.5
40°-50°	490.5	15.4
50°-60°	422.9	13.3
60°-70°	319.7	10.1
70°-80°	209.3	6.6
80°-90°	111.3	3.5
90°-100°	71.8	2.3
100°-110°	70.3	2.2
110°-120°	63.2	2.0
120°-130°	51.2	1.6
130°-140°	35.7	1.1
140°-150°	21.6	0.7
150°-160°	11.6	0.4
160°-170°	6.1	0.2
170°-180°	1.9	0.1
0°-30°	796.6	25.1
0°-40°	1288.8	40.6
0°-60°	2202.2	69.3
0°-90°	2842.6	89.5
90°-120°	205.3	6.5
90°-150°	313.7	9.9
90°-180°	333.0	10.5
0°-180°	3175.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1037	1033	1026	1032	1030	99
15°	995	991	987	994	990	280
25°	908	908	907	916	913	418
35°	781	784	787	793	792	488
45°	621	628	636	646	646	479
55°	446	453	473	490	496	399
65°	282	292	319	351	364	280
75°	144	157	194	237	255	153
85°	39	58	99	146	163	42
90°	0	22	64	108	123	3
95°	2	25	68	109	122	3
105°	9	29	71	105	114	9
115°	15	31	67	97	105	15
125°	19	29	59	85	93	17
135°	19	24	45	67	75	15
145°	18	23	31	47	53	12
155°	20	22	23	27	34	9
165°	21	22	22	20	23	6
175°	22	22	20	16	11	2
180°	18	18	18	18	18	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1036.2	1036.2	1036.2	1036.2	1036.2
2.5°	1042.2	1037.2	1030.2	1035.2	1033.2
5°	1037.2	1033.2	1026.2	1032.2	1030.2
7.5°	1032.2	1027.2	1021.2	1027.2	1024.2
10°	1021.2	1017.2	1011.2	1019.2	1015.2
12.5°	1009.2	1006.2	1001.2	1008.2	1005.2
15°	995.2	991.2	987.2	994.2	990.2
17.5°	976.2	974.2	971.2	979.2	975.2
20°	957.2	954.2	952.2	961.2	956.2
22.5°	932.2	932.2	930.2	939.2	938.2
25°	908.2	908.2	907.2	916.2	913.2
27.5°	880.2	880.2	881.2	887.2	885.2
30°	850.2	850.2	852.2	859.2	857.2
32.5°	817.2	819.2	819.2	826.2	824.2
35°	781.2	784.2	787.2	793.2	792.2
37.5°	744.1	747.1	750.2	758.2	756.2
40°	705.1	709.1	715.1	723.1	722.1
42.5°	665.1	668.1	677.1	684.1	685.1
45°	621.1	628.1	636.1	646.1	646.1
47.5°	579.1	585.1	596.1	607.1	608.1
50°	532.1	542.1	555.1	567.1	571.1
52.5°	489.1	498.1	515.1	528.1	532.1
55°	446.1	453.1	473.1	490.1	496.1
57.5°	404.1	411.1	433.1	454.1	460.1
60°	361.1	371.1	394.1	419.1	427.1
62.5°	321.1	330.1	357.1	384.1	395.1
65°	282.1	292.1	319.1	351.1	364.1
67.5°	245.0	256.1	286.1	320.1	335.1
70°	208.0	220.0	253.1	291.1	307.1
72.5°	177.0	188.0	223.0	263.1	280.1
75°	144.0	157.0	194.0	237.0	255.1
77.5°	114.0	128.0	168.0	212.0	232.0
80°	85.0	103.0	143.0	189.0	207.0
82.5°	62.0	78.0	120.0	167.0	185.0
85°	39.0	58.0	99.0	146.0	163.0
87.5°	19.0	39.0	80.0	124.0	141.0
90°	0.0	22.0	64.0	108.0	123.0
92.5°	1.0	23.0	66.0	109.0	123.0
95°	2.0	25.0	68.0	109.0	122.0
97.5°	4.0	26.0	70.0	109.0	120.0
100°	6.0	27.0	71.0	108.0	118.0
102.5°	7.0	28.0	71.0	107.0	116.0
105°	9.0	29.0	71.0	105.0	114.0
107.5°	10.0	30.0	71.0	103.0	111.0
110°	12.0	30.0	70.0	101.0	109.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	14.0	31.0	69.0	99.0	107.0
115°	15.0	31.0	67.0	97.0	105.0
117.5°	17.0	31.0	66.0	94.0	103.0
120°	18.0	31.0	64.0	91.0	100.0
122.5°	19.0	30.0	61.0	88.0	97.0
125°	19.0	29.0	59.0	85.0	93.0
127.5°	20.0	28.0	56.0	80.0	89.0
130°	20.0	27.0	53.0	76.0	85.0
132.5°	20.0	25.0	49.0	72.0	80.0
135°	19.0	24.0	45.0	67.0	75.0
137.5°	19.0	24.0	41.0	62.0	69.0
140°	19.0	23.0	38.0	57.0	64.0
142.5°	19.0	23.0	34.0	52.0	58.0
145°	18.0	23.0	31.0	47.0	53.0
147.5°	18.0	23.0	28.0	42.0	47.0
150°	19.0	22.0	25.0	36.0	42.0
152.5°	19.0	22.0	23.0	32.0	38.0
155°	20.0	22.0	23.0	27.0	34.0
157.5°	20.0	22.0	22.0	24.0	30.0
160°	21.0	22.0	22.0	22.0	27.0
162.5°	21.0	22.0	22.0	21.0	25.0
165°	21.0	22.0	22.0	20.0	23.0
167.5°	22.0	22.0	21.0	19.0	22.0
170°	22.0	22.0	21.0	18.0	21.0
172.5°	22.0	22.0	21.0	17.0	18.0
175°	22.0	22.0	20.0	16.0	11.0
177.5°	22.0	22.0	20.0	16.0	8.0
180°	18.0	18.0	18.0	18.0	18.0

(END OF REPORT)