

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: P189024

Luminaire Tested: **RZL-WB-40L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189024  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34813)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: RZL-WB-40L830-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH LUMINOUS SIDES, SNAP-ON CLEAR LINEAR PRISMATIC LENS AND INTERNAL  
BAFFLE  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3851.6 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.22 / 1.27  
Luminous Opening: Rectangular w/ Sides (W: 0.53' x L: 3.83' x H: 0.12')  
CIE Type: Semi-Direct

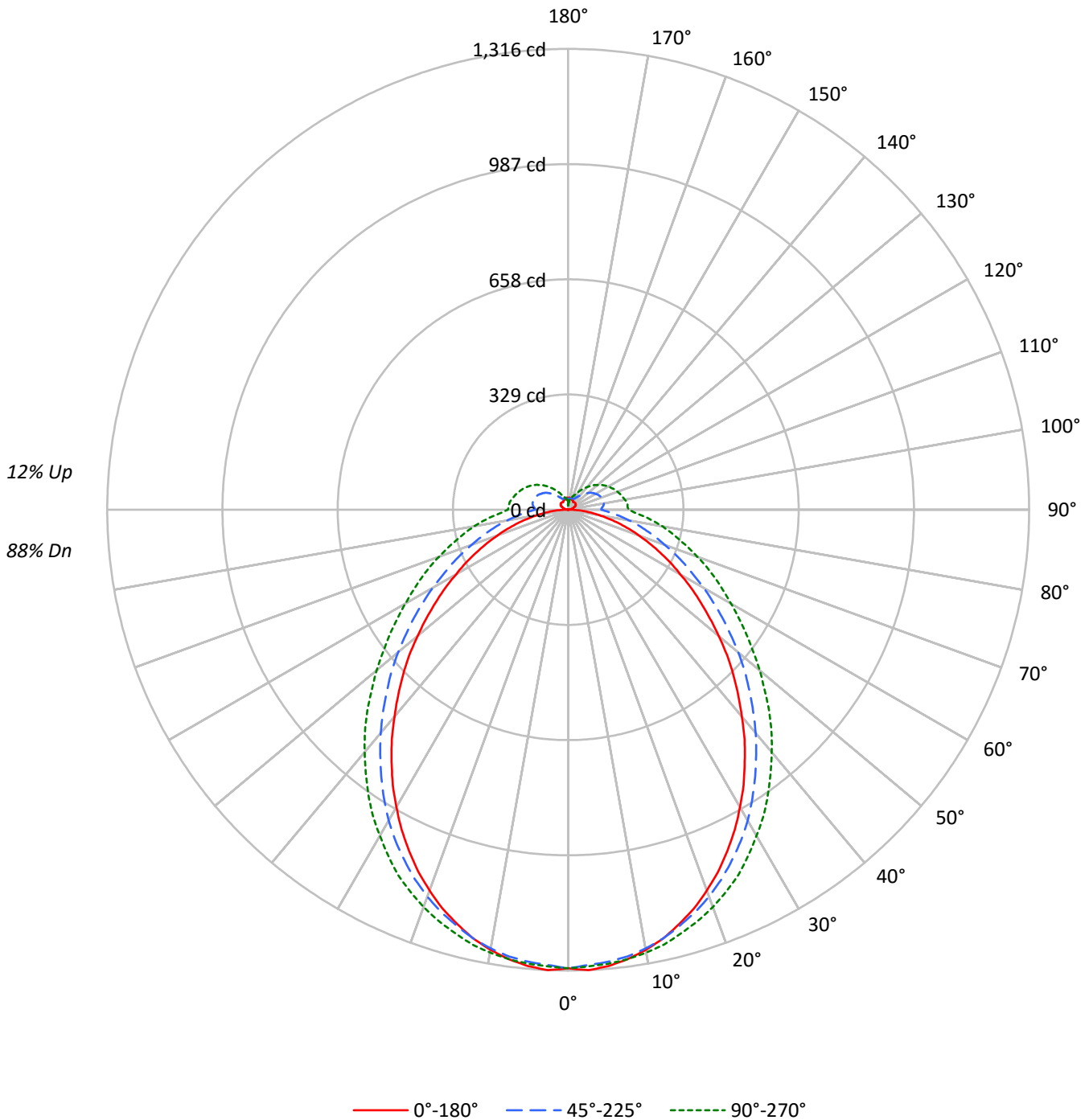
Input Watts (W): 34.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	105	100	96	92	101	97	93	89	90	87	84	84	82	79	79	77	75	72
2	96	88	81	75	92	85	78	73	79	74	70	74	70	66	69	66	63	60
3	88	77	69	63	84	75	67	61	70	64	59	66	60	56	61	57	54	51
4	80	68	60	53	77	66	58	52	62	56	50	59	53	48	55	50	46	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	40	38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	34
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30
8	59	46	38	32	57	45	37	31	42	35	31	40	34	30	38	33	29	27
9	55	42	34	29	53	41	34	28	39	32	28	37	31	27	35	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	28	24	22

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

	0°	45°	90°
0°	6894	6894	6894
5°	6894	6740	6741
10°	6785	6583	6594
15°	6618	6382	6417
20°	6407	6164	6234
25°	6151	5902	6025
30°	5853	5617	5756
35°	5522	5282	5489
40°	5161	4939	5192
45°	4807	4582	4893
50°	4421	4237	4574
55°	4046	3881	4275
60°	3686	3545	4020
65°	3364	3244	3835
70°	3033	2969	3673
75°	2693	2769	3553
80°	2305	2601	3554
85°	1923	2485	3570



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.6	3.2
10°-20°	348.5	9.0
20°-30°	510.8	13.3
30°-40°	584.5	15.2
40°-50°	568.1	14.7
50°-60°	483.0	12.5
60°-70°	368.1	9.6
70°-80°	249.9	6.5
80°-90°	144.6	3.8
90°-100°	102.8	2.7
100°-110°	100.4	2.6
110°-120°	88.4	2.3
120°-130°	70.1	1.8
130°-140°	48.9	1.3
140°-150°	30.3	0.8
150°-160°	17.3	0.4
160°-170°	9.4	0.2
170°-180°	2.9	0.1
0°-30°	982.8	25.5
0°-40°	1567.3	40.7
0°-60°	2618.4	68.0
0°-90°	3381.0	87.8
90°-120°	291.6	7.6
90°-150°	440.9	11.4
90°-180°	471.0	12.2
0°-180°	3851.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1308	1304	1296	1304	1302	124
15°	1225	1227	1230	1250	1251	345
25°	1075	1083	1105	1140	1150	494
35°	879	895	930	978	994	549
45°	667	685	732	789	811	514
55°	461	481	537	596	622	414
65°	289	306	366	435	463	287
75°	148	168	232	300	327	158
85°	44	70	130	194	217	45
90°	0	33	94	154	172	3
95°	3	36	99	156	170	3
105°	12	42	103	150	158	12
115°	21	45	97	135	142	21
125°	26	41	84	114	122	23
135°	28	34	64	90	98	22
145°	26	33	44	65	72	17
155°	29	33	34	41	49	14
165°	33	33	33	32	36	9
175°	34	34	32	25	20	3
180°	28	28	28	28	28	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1309.5	1309.5	1309.5	1309.5	1309.5
2.5°	1316.2	1310.9	1301.6	1308.2	1305.6
5°	1308.2	1304.2	1296.3	1304.2	1301.6
7.5°	1295.0	1292.3	1287.0	1296.3	1295.0
10°	1276.4	1275.1	1272.4	1285.7	1284.4
12.5°	1253.9	1253.9	1253.9	1269.8	1271.1
15°	1224.7	1227.4	1230.0	1249.9	1251.2
17.5°	1194.2	1198.2	1204.8	1228.7	1231.3
20°	1157.1	1162.4	1175.7	1203.5	1207.5
22.5°	1118.7	1125.3	1142.5	1173.0	1179.6
25°	1074.9	1082.9	1105.4	1139.9	1150.5
27.5°	1029.9	1040.5	1067.0	1102.8	1113.4
30°	980.8	994.1	1024.6	1063.0	1074.9
32.5°	931.8	946.4	978.2	1020.6	1037.8
35°	878.8	894.7	930.5	978.2	994.1
37.5°	827.1	844.3	881.4	933.1	949.0
40°	771.4	793.9	832.4	885.4	904.0
42.5°	718.4	739.6	782.0	837.7	858.9
45°	666.7	685.3	731.6	788.6	811.2
47.5°	615.0	633.6	683.9	738.3	759.5
50°	560.7	579.2	633.6	691.9	714.4
52.5°	510.3	528.9	583.2	641.5	665.4
55°	461.3	481.1	536.8	596.5	621.6
57.5°	416.2	433.4	490.4	552.7	577.9
60°	369.8	388.4	446.7	510.3	536.8
62.5°	330.0	345.9	402.9	470.5	498.4
65°	288.9	306.2	365.8	434.7	462.6
67.5°	250.5	269.1	328.7	399.0	428.1
70°	214.7	233.3	292.9	364.5	392.3
72.5°	181.6	201.5	261.1	331.4	359.2
75°	148.5	168.3	232.0	299.6	327.4
77.5°	118.0	141.8	204.1	273.0	299.6
80°	90.1	115.3	177.6	245.2	273.0
82.5°	64.9	91.5	152.4	220.0	243.9
85°	43.7	70.2	129.9	193.5	217.4
87.5°	21.2	50.4	110.0	171.0	189.5
90°	0.0	33.1	94.1	153.8	172.3
92.5°	1.3	34.5	95.4	155.1	169.7
95°	2.7	35.8	99.4	156.4	169.7
97.5°	5.3	38.4	102.1	156.4	168.3
100°	8.0	39.8	103.4	155.1	164.4
102.5°	9.3	41.1	103.4	153.8	160.4
105°	11.9	42.4	103.4	149.8	157.7
107.5°	13.3	43.7	103.4	147.1	153.8
110°	15.9	43.7	100.7	143.1	149.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	18.6	43.7	99.4	139.2	145.8
115°	21.2	45.1	96.8	135.2	141.8
117.5°	22.5	43.7	94.1	129.9	136.5
120°	25.2	43.7	90.1	124.6	132.5
122.5°	25.2	42.4	87.5	119.3	127.2
125°	26.5	41.1	83.5	114.0	121.9
127.5°	26.5	39.8	79.5	108.7	116.6
130°	27.8	37.1	74.2	102.1	110.0
132.5°	27.8	35.8	68.9	96.8	104.7
135°	27.8	34.5	63.6	90.1	98.1
137.5°	27.8	34.5	58.3	83.5	91.5
140°	27.8	33.1	53.0	78.2	84.8
142.5°	26.5	33.1	49.0	71.6	78.2
145°	26.5	33.1	43.7	64.9	71.6
147.5°	26.5	33.1	41.1	58.3	64.9
150°	27.8	33.1	37.1	51.7	59.6
152.5°	29.2	33.1	34.5	46.4	54.3
155°	29.2	33.1	34.5	41.1	49.0
157.5°	30.5	33.1	34.5	35.8	43.7
160°	30.5	33.1	34.5	33.1	41.1
162.5°	31.8	33.1	34.5	33.1	38.4
165°	33.1	33.1	33.1	31.8	35.8
167.5°	33.1	34.5	33.1	29.2	34.5
170°	34.5	34.5	33.1	27.8	31.8
172.5°	34.5	34.5	31.8	26.5	25.2
175°	34.5	34.5	31.8	25.2	19.9
177.5°	34.5	34.5	31.8	25.2	11.9
180°	27.8	27.8	27.8	27.8	27.8

(END OF REPORT)