

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: P189044

Luminaire Tested: **RZL-WL-40L835-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189044  
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-40L835-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH LUMINOUS SIDES AND SNAP-ON FROSTED LINEAR PRISMATIC LENS  
Light Source: (112) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4355.1 lumens  
Efficiency: N/A  
Efficacy: 125.5 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

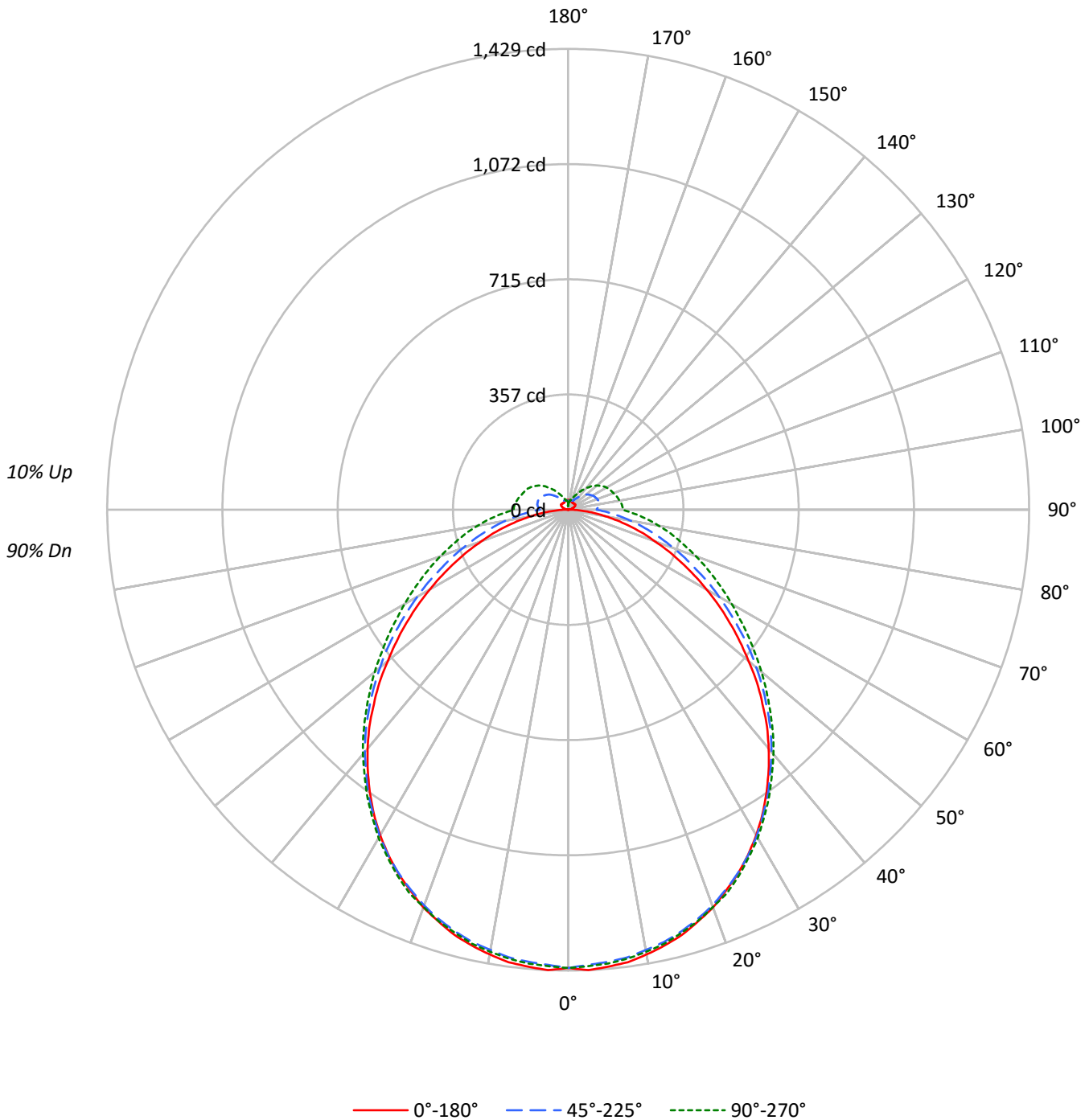
Input Watts (W): 34.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	7481	7481	7481
5°	7496	7316	7316
10°	7443	7174	7147
15°	7374	7023	6964
20°	7268	6845	6769
25°	7126	6642	6558
30°	6956	6406	6294
35°	6731	6128	5998
40°	6468	5818	5687
45°	6141	5464	5344
50°	5753	5090	5014
55°	5365	4690	4679
60°	4935	4288	4386
65°	4504	3880	4139
70°	4031	3517	3943
75°	3582	3176	3795
80°	2984	2871	3696
85°	2354	2598	3672



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.4	3.1
10°-20°	383.5	8.8
20°-30°	574.5	13.2
30°-40°	675.0	15.5
40°-50°	672.6	15.4
50°-60°	579.9	13.3
60°-70°	438.3	10.1
70°-80°	287.1	6.6
80°-90°	152.6	3.5
90°-100°	98.5	2.3
100°-110°	96.4	2.2
110°-120°	86.7	2.0
120°-130°	70.2	1.6
130°-140°	48.9	1.1
140°-150°	29.6	0.7
150°-160°	16.0	0.4
160°-170°	8.4	0.2
170°-180°	2.6	0.1
0°-30°	1092.3	25.1
0°-40°	1767.3	40.6
0°-60°	3019.8	69.3
0°-90°	3897.9	89.5
90°-120°	281.6	6.5
90°-150°	430.3	9.9
90°-180°	457.0	10.5
0°-180°	4355.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1422	1417	1407	1415	1413	135
15°	1365	1359	1354	1363	1358	384
25°	1245	1245	1244	1256	1252	573
35°	1071	1075	1079	1088	1086	669
45°	852	861	872	886	886	657
55°	612	621	649	672	680	547
65°	387	400	438	481	499	384
75°	198	215	266	325	350	210
85°	54	80	136	200	224	57
90°	0	30	88	148	169	4
95°	3	34	93	150	167	4
105°	12	40	97	144	156	13
115°	21	42	92	133	144	21
125°	26	40	81	117	128	24
135°	26	33	62	92	103	21
145°	25	32	42	64	73	16
155°	27	30	32	37	47	13
165°	29	30	30	27	32	8
175°	30	30	27	22	15	3
180°	25	25	25	25	25	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1420.9	1420.9	1420.9	1420.9	1420.9
2.5°	1429.1	1422.3	1412.7	1419.5	1416.8
5°	1422.3	1416.8	1407.2	1415.4	1412.7
7.5°	1415.4	1408.6	1400.3	1408.6	1404.4
10°	1400.3	1394.8	1386.6	1397.6	1392.1
12.5°	1383.9	1379.8	1372.9	1382.5	1378.4
15°	1364.7	1359.2	1353.7	1363.3	1357.8
17.5°	1338.6	1335.9	1331.8	1342.7	1337.2
20°	1312.6	1308.4	1305.7	1318.0	1311.2
22.5°	1278.3	1278.3	1275.5	1287.9	1286.5
25°	1245.4	1245.4	1244.0	1256.3	1252.2
27.5°	1206.9	1206.9	1208.3	1216.5	1213.8
30°	1165.8	1165.8	1168.5	1178.1	1175.4
32.5°	1120.5	1123.3	1123.3	1132.9	1130.1
35°	1071.2	1075.3	1079.4	1087.6	1086.3
37.5°	1020.4	1024.5	1028.6	1039.6	1036.9
40°	966.9	972.4	980.6	991.6	990.2
42.5°	912.1	916.2	928.5	938.1	939.5
45°	851.7	861.3	872.3	886.0	886.0
47.5°	794.1	802.3	817.4	832.5	833.9
50°	729.7	743.4	761.2	777.7	783.1
52.5°	670.7	683.0	706.3	724.2	729.7
55°	611.7	621.3	648.7	672.1	680.3
57.5°	554.1	563.7	593.9	622.7	630.9
60°	495.1	508.8	540.4	574.7	585.6
62.5°	440.3	452.6	489.6	526.7	541.8
65°	386.8	400.5	437.5	481.4	499.2
67.5°	336.0	351.1	392.3	438.9	459.5
70°	285.3	301.7	347.0	399.1	421.1
72.5°	242.8	257.8	305.9	360.7	384.0
75°	197.5	215.3	266.1	325.1	349.7
77.5°	156.4	175.6	230.4	290.8	318.2
80°	116.6	141.3	196.1	259.2	283.9
82.5°	85.0	107.0	164.6	229.0	253.7
85°	53.5	79.5	135.8	200.2	223.6
87.5°	26.1	53.5	109.7	170.1	193.4
90°	0.0	30.2	87.8	148.1	168.7
92.5°	1.4	31.5	90.5	149.5	168.7
95°	2.7	34.3	93.3	149.5	167.3
97.5°	5.5	35.7	96.0	149.5	164.6
100°	8.2	37.0	97.4	148.1	161.8
102.5°	9.6	38.4	97.4	146.8	159.1
105°	12.3	39.8	97.4	144.0	156.4
107.5°	13.7	41.1	97.4	141.3	152.2
110°	16.5	41.1	96.0	138.5	149.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	19.2	42.5	94.6	135.8	146.8
115°	20.6	42.5	91.9	133.0	144.0
117.5°	23.3	42.5	90.5	128.9	141.3
120°	24.7	42.5	87.8	124.8	137.2
122.5°	26.1	41.1	83.7	120.7	133.0
125°	26.1	39.8	80.9	116.6	127.6
127.5°	27.4	38.4	76.8	109.7	122.1
130°	27.4	37.0	72.7	104.2	116.6
132.5°	27.4	34.3	67.2	98.8	109.7
135°	26.1	32.9	61.7	91.9	102.9
137.5°	26.1	32.9	56.2	85.0	94.6
140°	26.1	31.5	52.1	78.2	87.8
142.5°	26.1	31.5	46.6	71.3	79.5
145°	24.7	31.5	42.5	64.5	72.7
147.5°	24.7	31.5	38.4	57.6	64.5
150°	26.1	30.2	34.3	49.4	57.6
152.5°	26.1	30.2	31.5	43.9	52.1
155°	27.4	30.2	31.5	37.0	46.6
157.5°	27.4	30.2	30.2	32.9	41.1
160°	28.8	30.2	30.2	30.2	37.0
162.5°	28.8	30.2	30.2	28.8	34.3
165°	28.8	30.2	30.2	27.4	31.5
167.5°	30.2	30.2	28.8	26.1	30.2
170°	30.2	30.2	28.8	24.7	28.8
172.5°	30.2	30.2	28.8	23.3	24.7
175°	30.2	30.2	27.4	21.9	15.1
177.5°	30.2	30.2	27.4	21.9	11.0
180°	24.7	24.7	24.7	24.7	24.7

(END OF REPORT)