

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: P189029

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189029  
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-40L835-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH LUMINOUS SIDES, SNAP-ON CLEAR LINEAR PRISMATIC LENS AND INTERNAL  
BAFFLE  
Light Source: (112) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3984.9 lumens  
Efficiency: N/A  
Efficacy: 114.8 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

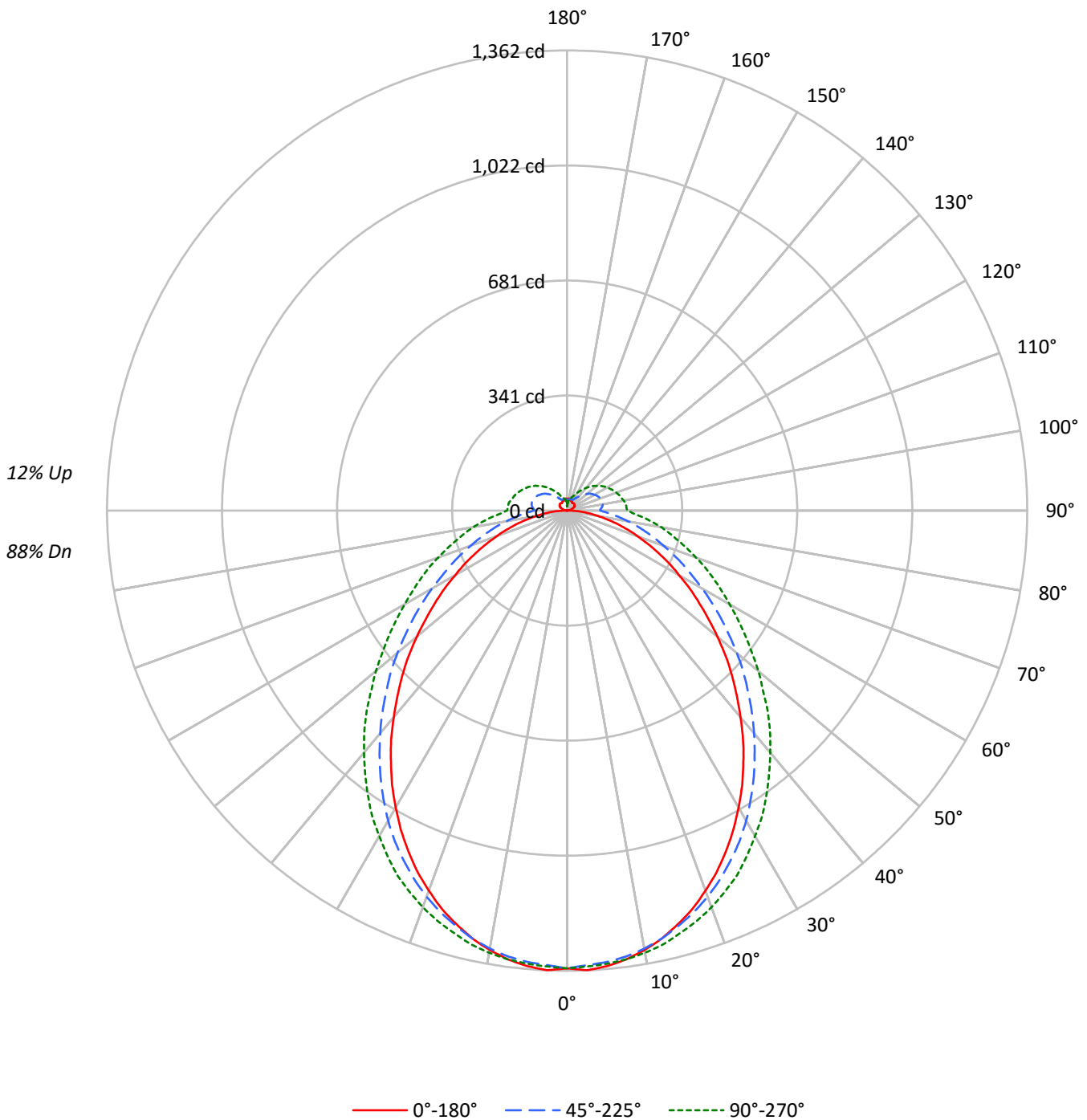
Input Watts (W): 34.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P189029

CATALOG NUMBER: RZL-WB-40L835-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P189029

CATALOG NUMBER: RZL-WB-40L835-1D-UNV-STD-W-4

**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°	7133	7133	7133
5°	7133	6973	6974
10°	7020	6811	6822
15°	6847	6603	6639
20°	6629	6377	6449
25°	6364	6106	6233
30°	6055	5811	5955
35°	5713	5465	5679
40°	5339	5110	5371
45°	4974	4741	5062
50°	4574	4383	4732
55°	4185	4015	4423
60°	3813	3667	4160
65°	3480	3356	3968
70°	3139	3072	3801
75°	2786	2864	3675
80°	2385	2691	3677
85°	1993	2571	3693



TEST NUMBER: P189029

CATALOG NUMBER: RZL-WB-40L835-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.8	3.2
10°-20°	360.5	9.0
20°-30°	528.5	13.3
30°-40°	604.7	15.2
40°-50°	587.8	14.7
50°-60°	499.7	12.5
60°-70°	380.8	9.6
70°-80°	258.6	6.5
80°-90°	149.6	3.8
90°-100°	106.4	2.7
100°-110°	103.9	2.6
110°-120°	91.5	2.3
120°-130°	72.5	1.8
130°-140°	50.6	1.3
140°-150°	31.4	0.8
150°-160°	17.9	0.4
160°-170°	9.8	0.2
170°-180°	3.0	0.1
0°-30°	1016.8	25.5
0°-40°	1621.6	40.7
0°-60°	2709.0	68.0
0°-90°	3498.0	87.8
90°-120°	301.7	7.6
90°-150°	456.2	11.4
90°-180°	487.0	12.2
0°-180°	3984.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1355	1355	1355	1355	1355	
5°	1354	1349	1341	1349	1347	128
15°	1267	1270	1273	1293	1294	357
25°	1112	1120	1144	1179	1190	511
35°	909	926	963	1012	1028	568
45°	690	709	757	816	839	532
55°	477	498	555	617	643	428
65°	299	317	378	450	479	297
75°	154	174	240	310	339	164
85°	45	73	134	200	225	46
90°	0	34	97	159	178	3
95°	3	37	103	162	176	4
105°	12	44	107	155	163	13
115°	22	47	100	140	147	21
125°	27	42	86	118	126	24
135°	29	36	66	93	102	22
145°	27	34	45	67	74	17
155°	30	34	36	42	51	14
165°	34	34	34	33	37	10
175°	36	36	33	26	21	3
180°	29	29	29	29	29	



TEST NUMBER: P189029

CATALOG NUMBER: RZL-WB-40L835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1354.8	1354.8	1354.8	1354.8	1354.8
2.5°	1361.7	1356.2	1346.6	1353.5	1350.7
5°	1353.5	1349.4	1341.1	1349.4	1346.6
7.5°	1339.8	1337.0	1331.5	1341.1	1339.8
10°	1320.6	1319.2	1316.4	1330.2	1328.8
12.5°	1297.2	1297.2	1297.2	1313.7	1315.1
15°	1267.1	1269.8	1272.6	1293.1	1294.5
17.5°	1235.5	1239.7	1246.5	1271.2	1273.9
20°	1197.1	1202.6	1216.3	1245.1	1249.3
22.5°	1157.4	1164.2	1182.1	1213.6	1220.5
25°	1112.1	1120.4	1143.7	1179.3	1190.3
27.5°	1065.5	1076.5	1103.9	1140.9	1151.9
30°	1014.8	1028.5	1060.0	1099.8	1112.1
32.5°	964.0	979.1	1012.0	1055.9	1073.7
35°	909.2	925.6	962.7	1012.0	1028.5
37.5°	855.7	873.5	911.9	965.4	981.9
40°	798.1	821.4	861.2	916.0	935.2
42.5°	743.2	765.2	809.1	866.7	888.6
45°	689.8	709.0	757.0	815.9	839.2
47.5°	636.3	655.5	707.6	763.8	785.8
50°	580.1	599.3	655.5	715.8	739.1
52.5°	528.0	547.1	603.4	663.7	688.4
55°	477.2	497.8	555.4	617.1	643.1
57.5°	430.6	448.4	507.4	571.8	597.9
60°	382.6	401.8	462.1	528.0	555.4
62.5°	341.5	357.9	416.9	486.8	515.6
65°	298.9	316.8	378.5	449.8	478.6
67.5°	259.2	278.4	340.1	412.8	442.9
70°	222.2	241.3	303.1	377.1	405.9
72.5°	187.9	208.4	270.1	342.8	371.6
75°	153.6	174.2	240.0	309.9	338.7
77.5°	122.0	146.7	211.2	282.5	309.9
80°	93.2	119.3	183.8	253.7	282.5
82.5°	67.2	94.6	157.7	227.6	252.3
85°	45.3	72.7	134.4	200.2	224.9
87.5°	21.9	52.1	113.8	176.9	196.1
90°	0.0	34.3	97.4	159.1	178.3
92.5°	1.4	35.7	98.7	160.4	175.5
95°	2.7	37.0	102.8	161.8	175.5
97.5°	5.5	39.8	105.6	161.8	174.2
100°	8.2	41.1	107.0	160.4	170.0
102.5°	9.6	42.5	107.0	159.1	165.9
105°	12.3	43.9	107.0	155.0	163.2
107.5°	13.7	45.3	107.0	152.2	159.1
110°	16.5	45.3	104.2	148.1	155.0



TEST NUMBER: P189029

CATALOG NUMBER: RZL-WB-40L835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	19.2	45.3	102.8	144.0	150.8
115°	21.9	46.6	100.1	139.9	146.7
117.5°	23.3	45.3	97.4	134.4	141.2
120°	26.1	45.3	93.2	128.9	137.1
122.5°	26.1	43.9	90.5	123.4	131.6
125°	27.4	42.5	86.4	117.9	126.2
127.5°	27.4	41.1	82.3	112.4	120.7
130°	28.8	38.4	76.8	105.6	113.8
132.5°	28.8	37.0	71.3	100.1	108.3
135°	28.8	35.7	65.8	93.2	101.5
137.5°	28.8	35.7	60.3	86.4	94.6
140°	28.8	34.3	54.9	80.9	87.8
142.5°	27.4	34.3	50.7	74.1	80.9
145°	27.4	34.3	45.3	67.2	74.1
147.5°	27.4	34.3	42.5	60.3	67.2
150°	28.8	34.3	38.4	53.5	61.7
152.5°	30.2	34.3	35.7	48.0	56.2
155°	30.2	34.3	35.7	42.5	50.7
157.5°	31.5	34.3	35.7	37.0	45.3
160°	31.5	34.3	35.7	34.3	42.5
162.5°	32.9	34.3	35.7	34.3	39.8
165°	34.3	34.3	34.3	32.9	37.0
167.5°	34.3	35.7	34.3	30.2	35.7
170°	35.7	35.7	34.3	28.8	32.9
172.5°	35.7	35.7	32.9	27.4	26.1
175°	35.7	35.7	32.9	26.1	20.6
177.5°	35.7	35.7	32.9	26.1	12.3
180°	28.8	28.8	28.8	28.8	28.8

(END OF REPORT)