

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: P189047

Luminaire Tested: **RZL-WL-80L835-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189047  
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-80L835-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH LUMINOUS SIDES AND SNAP-ON FROSTED LINEAR PRISMATIC LENS  
Light Source: (224) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8828.6 lumens  
Efficiency: N/A  
Efficacy: 118.0 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

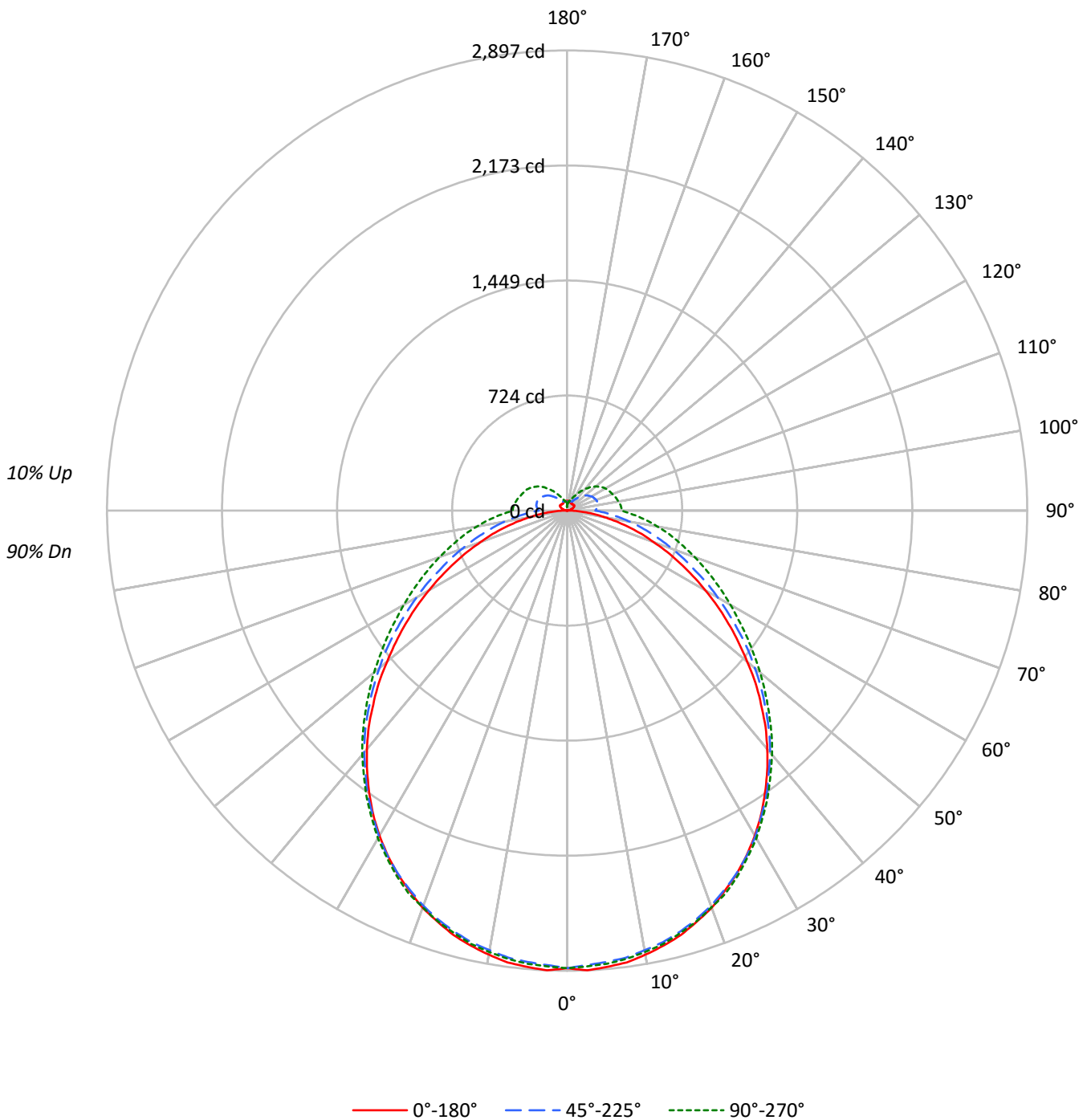
Input Watts (W): 74.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P189047

CATALOG NUMBER: RZL-WL-80L835-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P189047

CATALOG NUMBER: RZL-WL-80L835-1D-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	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°	15165	15165	15165
5°	15195	14831	14831
10°	15089	14543	14489
15°	14949	14238	14117
20°	14733	13877	13722
25°	14446	13464	13294
30°	14102	12986	12760
35°	13645	12422	12158
40°	13113	11795	11529
45°	12450	11075	10834
50°	11662	10318	10165
55°	10876	9508	9484
60°	10004	8693	8892
65°	9130	7865	8390
70°	8170	7130	7993
75°	7261	6437	7693
80°	6046	5822	7491
85°	4770	5266	7442



TEST NUMBER: P189047

CATALOG NUMBER: RZL-WL-80L835-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.4	3.1
10°-20°	777.3	8.8
20°-30°	1164.6	13.2
30°-40°	1368.3	15.5
40°-50°	1363.5	15.4
50°-60°	1175.6	13.3
60°-70°	888.6	10.1
70°-80°	582.0	6.6
80°-90°	309.5	3.5
90°-100°	199.6	2.3
100°-110°	195.5	2.2
110°-120°	175.8	2.0
120°-130°	142.3	1.6
130°-140°	99.1	1.1
140°-150°	60.0	0.7
150°-160°	32.3	0.4
160°-170°	17.0	0.2
170°-180°	5.2	0.1
0°-30°	2214.4	25.1
0°-40°	3582.6	40.6
0°-60°	6121.8	69.3
0°-90°	7901.8	89.5
90°-120°	570.9	6.5
90°-150°	872.3	9.9
90°-180°	927.0	10.5
0°-180°	8828.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2880	2880	2880	2880	2880	
5°	2883	2872	2853	2869	2864	274
15°	2766	2755	2744	2764	2753	779
25°	2525	2525	2522	2547	2538	1162
35°	2172	2180	2188	2205	2202	1357
45°	1727	1746	1768	1796	1796	1332
55°	1240	1260	1315	1362	1379	1109
65°	784	812	887	976	1012	779
75°	400	436	539	659	709	426
85°	108	161	275	406	453	116
90°	0	61	178	300	342	8
95°	6	70	189	303	339	7
105°	25	81	197	292	317	26
115°	42	86	186	270	292	42
125°	53	81	164	236	259	48
135°	53	67	125	186	208	42
145°	50	64	86	131	147	32
155°	56	61	64	75	94	25
165°	58	61	61	56	64	17
175°	61	61	56	44	31	6
180°	50	50	50	50	50	



TEST NUMBER: P189047

CATALOG NUMBER: RZL-WL-80L835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2880.4	2880.4	2880.4	2880.4	2880.4
2.5°	2897.1	2883.2	2863.8	2877.7	2872.1
5°	2883.2	2872.1	2852.6	2869.3	2863.8
7.5°	2869.3	2855.4	2838.7	2855.4	2847.1
10°	2838.7	2827.6	2810.9	2833.2	2822.1
12.5°	2805.4	2797.0	2783.1	2802.6	2794.3
15°	2766.5	2755.3	2744.2	2763.7	2752.6
17.5°	2713.6	2708.1	2699.7	2722.0	2710.8
20°	2660.8	2652.5	2646.9	2671.9	2658.0
22.5°	2591.3	2591.3	2585.7	2610.8	2608.0
25°	2524.6	2524.6	2521.8	2546.8	2538.5
27.5°	2446.7	2446.7	2449.5	2466.2	2460.6
30°	2363.3	2363.3	2368.9	2388.3	2382.8
32.5°	2271.6	2277.1	2277.1	2296.6	2291.0
35°	2171.5	2179.8	2188.1	2204.8	2202.0
37.5°	2068.6	2076.9	2085.3	2107.5	2101.9
40°	1960.2	1971.3	1988.0	2010.2	2007.4
42.5°	1848.9	1857.3	1882.3	1901.8	1904.5
45°	1726.6	1746.1	1768.3	1796.1	1796.1
47.5°	1609.8	1626.5	1657.1	1687.7	1690.5
50°	1479.1	1507.0	1543.1	1576.5	1587.6
52.5°	1359.6	1384.6	1431.9	1468.0	1479.1
55°	1240.0	1259.5	1315.1	1362.4	1379.1
57.5°	1123.3	1142.7	1203.9	1262.3	1279.0
60°	1003.7	1031.5	1095.5	1165.0	1187.2
62.5°	892.5	917.5	992.6	1067.7	1098.2
65°	784.1	811.9	886.9	975.9	1012.0
67.5°	681.2	711.8	795.2	889.7	931.4
70°	578.3	611.7	703.4	809.1	853.6
72.5°	492.1	522.7	620.0	731.2	778.5
75°	400.4	436.5	539.4	658.9	709.0
77.5°	317.0	355.9	467.1	589.4	645.0
80°	236.3	286.4	397.6	525.5	575.5
82.5°	172.4	216.9	333.6	464.3	514.4
85°	108.4	161.3	275.3	405.9	453.2
87.5°	52.8	108.4	222.4	344.8	392.0
90°	0.0	61.2	177.9	300.3	342.0
92.5°	2.8	63.9	183.5	303.1	342.0
95°	5.6	69.5	189.1	303.1	339.2
97.5°	11.1	72.3	194.6	303.1	333.6
100°	16.7	75.1	197.4	300.3	328.1
102.5°	19.5	77.8	197.4	297.5	322.5
105°	25.0	80.6	197.4	291.9	317.0
107.5°	27.8	83.4	197.4	286.4	308.6
110°	33.4	83.4	194.6	280.8	303.1



TEST NUMBER: P189047

CATALOG NUMBER: RZL-WL-80L835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	38.9	86.2	191.8	275.3	297.5
115°	41.7	86.2	186.3	269.7	291.9
117.5°	47.3	86.2	183.5	261.4	286.4
120°	50.0	86.2	177.9	253.0	278.0
122.5°	52.8	83.4	169.6	244.7	269.7
125°	52.8	80.6	164.0	236.3	258.6
127.5°	55.6	77.8	155.7	222.4	247.5
130°	55.6	75.1	147.4	211.3	236.3
132.5°	55.6	69.5	136.2	200.2	222.4
135°	52.8	66.7	125.1	186.3	208.5
137.5°	52.8	66.7	114.0	172.4	191.8
140°	52.8	63.9	105.7	158.5	177.9
142.5°	52.8	63.9	94.5	144.6	161.3
145°	50.0	63.9	86.2	130.7	147.4
147.5°	50.0	63.9	77.8	116.8	130.7
150°	52.8	61.2	69.5	100.1	116.8
152.5°	52.8	61.2	63.9	89.0	105.7
155°	55.6	61.2	63.9	75.1	94.5
157.5°	55.6	61.2	61.2	66.7	83.4
160°	58.4	61.2	61.2	61.2	75.1
162.5°	58.4	61.2	61.2	58.4	69.5
165°	58.4	61.2	61.2	55.6	63.9
167.5°	61.2	61.2	58.4	52.8	61.2
170°	61.2	61.2	58.4	50.0	58.4
172.5°	61.2	61.2	58.4	47.3	50.0
175°	61.2	61.2	55.6	44.5	30.6
177.5°	61.2	61.2	55.6	44.5	22.2
180°	50.0	50.0	50.0	50.0	50.0

(END OF REPORT)