

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: P189017

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34812)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: RZL-NL-80L835-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH SOLID ALUMINUM SIDES, FROSTED LINEAR PRISMATIC LENS AND INLAY  
Light Source: (224) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8358.8 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.34  
Luminous Opening: Rectangular (W 0.53' x L: 3.83' x H: 0')  
CIE Type: Direct

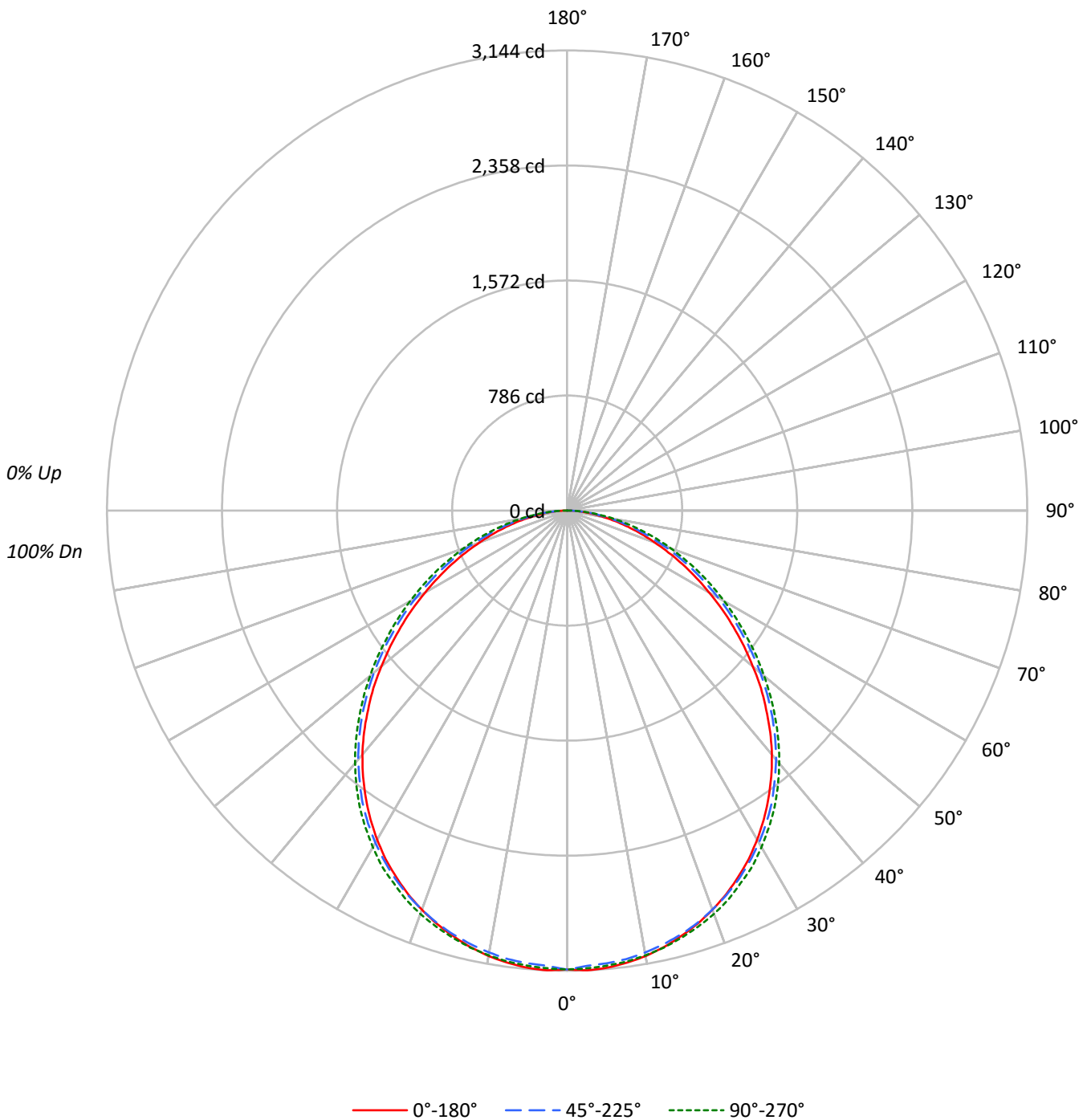
Input Watts (W): 74.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	16508	16508	16508
5°	16571	16410	16498
10°	16525	16391	16496
15°	16409	16348	16470
20°	16259	16259	16431
25°	16051	16132	16309
30°	15784	15936	16139
35°	15419	15669	15883
40°	14959	15265	15494
45°	14323	14737	14985
50°	13570	14116	14390
55°	12732	13345	13727
60°	11796	12557	13055
65°	10840	11704	12363
70°	9800	10783	11596
75°	8765	9840	10743
80°	7586	8850	9775
85°	6379	7726	8397



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.6	3.5
10°-20°	850.0	10.2
20°-30°	1283.1	15.3
30°-40°	1522.9	18.2
40°-50°	1523.6	18.2
50°-60°	1298.4	15.5
60°-70°	928.0	11.1
70°-80°	512.3	6.1
80°-90°	144.0	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2429.7	29.1
0°-40°	3952.6	47.3
0°-60°	6774.6	81.0
0°-90°	8358.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8358.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3136	3136	3136	3136	3136	
5°	3136	3124	3105	3127	3122	298
15°	3010	3008	2999	3027	3022	849
25°	2763	2769	2777	2813	2808	1273
35°	2399	2413	2438	2466	2471	1499
45°	1924	1949	1979	2012	2012	1483
55°	1387	1412	1454	1493	1496	1241
65°	870	890	940	984	992	864
75°	431	442	484	520	528	459
85°	106	111	128	139	139	124
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3135.5	3135.5	3135.5	3135.5	3135.5
2.5°	3143.9	3132.7	3113.3	3132.7	3130.0
5°	3135.5	3124.4	3104.9	3127.2	3121.6
7.5°	3116.1	3104.9	3091.0	3110.5	3107.7
10°	3091.0	3079.9	3066.0	3091.0	3085.5
12.5°	3054.9	3049.4	3035.5	3063.3	3057.7
15°	3010.4	3007.7	2999.3	3027.1	3021.6
17.5°	2960.4	2957.6	2954.8	2985.4	2979.9
20°	2902.0	2902.0	2902.0	2932.6	2932.6
22.5°	2838.1	2838.1	2843.7	2877.0	2877.0
25°	2763.0	2768.6	2776.9	2813.1	2807.5
27.5°	2685.2	2690.8	2701.9	2740.8	2740.8
30°	2596.3	2604.6	2621.3	2654.6	2654.6
32.5°	2501.7	2512.9	2532.3	2565.7	2565.7
35°	2398.9	2412.8	2437.8	2465.6	2471.2
37.5°	2290.5	2301.6	2329.4	2365.5	2365.5
40°	2176.5	2193.2	2221.0	2254.4	2254.4
42.5°	2054.2	2070.9	2104.2	2134.8	2137.6
45°	1923.6	1948.6	1979.2	2012.5	2012.5
47.5°	1795.7	1817.9	1854.1	1881.9	1887.4
50°	1656.7	1687.3	1723.4	1754.0	1756.8
52.5°	1523.3	1551.1	1590.0	1626.1	1628.9
55°	1387.1	1412.1	1453.8	1492.7	1495.5
57.5°	1256.4	1281.5	1325.9	1364.8	1367.6
60°	1120.2	1142.5	1192.5	1231.4	1239.8
62.5°	995.1	1017.4	1061.9	1109.1	1114.7
65°	870.1	889.5	939.5	984.0	992.4
67.5°	750.5	767.2	817.2	858.9	867.3
70°	636.6	653.2	700.5	742.2	753.3
72.5°	530.9	544.8	589.3	628.2	639.3
75°	430.9	442.0	483.7	519.8	528.1
77.5°	336.3	347.5	383.6	417.0	422.5
80°	250.2	258.5	291.9	316.9	322.4
82.5°	175.1	183.5	205.7	225.2	227.9
85°	105.6	111.2	127.9	139.0	139.0
87.5°	50.0	50.0	58.4	61.2	58.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)