

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: P189052

Luminaire Tested: **RZL-WL-80L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189052  
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-80L840-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH LUMINOUS SIDES AND SNAP-ON FROSTED LINEAR PRISMATIC LENS  
Light Source: (224) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9044.0 lumens  
Efficiency: N/A  
Efficacy: 120.9 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

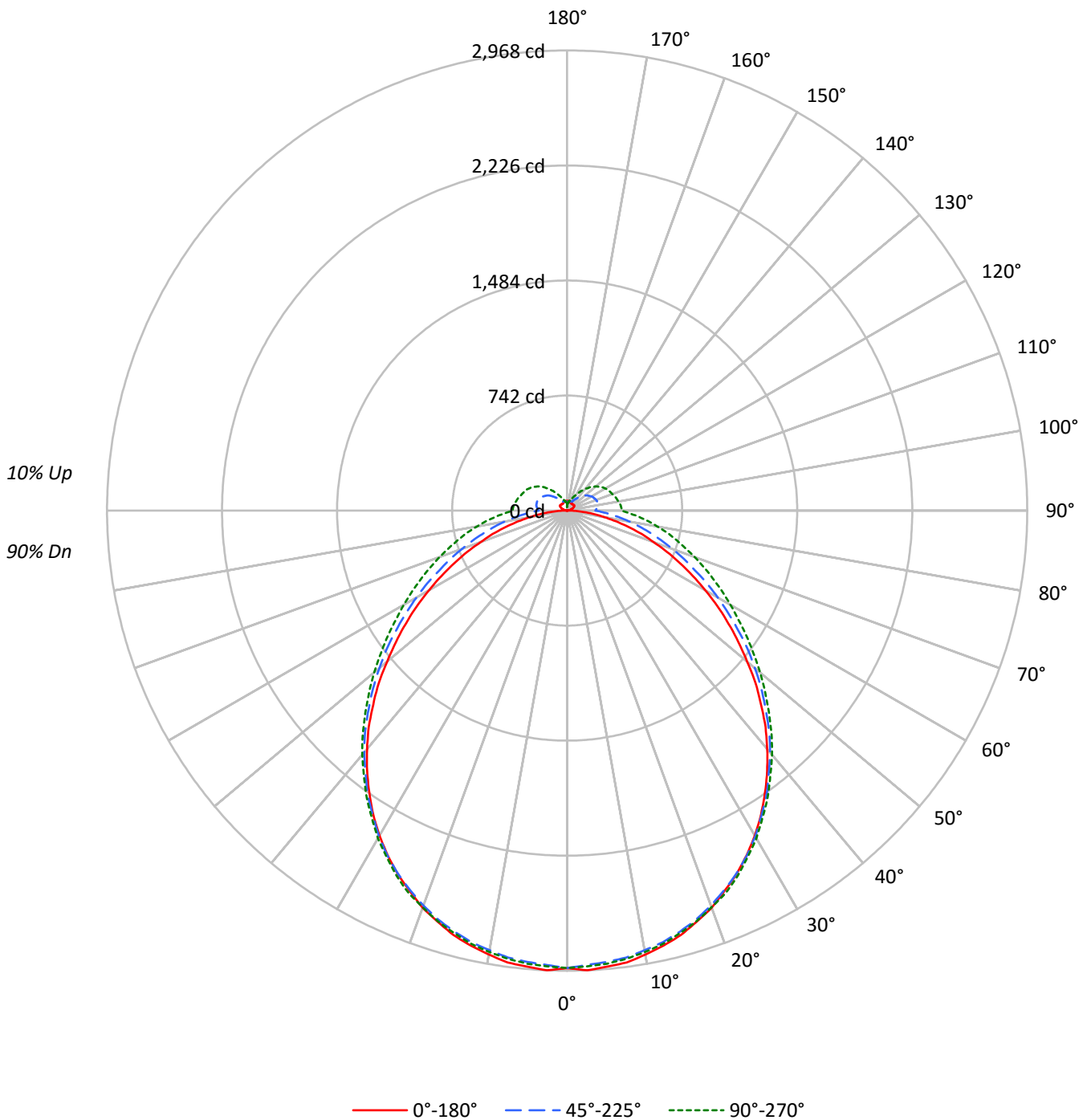
Input Watts (W): 74.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	15535	15535	15535
5°	15565	15193	15193
10°	15458	14898	14842
15°	15313	14585	14461
20°	15093	14215	14056
25°	14798	13793	13618
30°	14446	13302	13071
35°	13978	12725	12454
40°	13433	12082	11811
45°	12753	11345	11098
50°	11946	10569	10412
55°	11141	9740	9715
60°	10248	8905	9109
65°	9352	8057	8595
70°	8369	7304	8188
75°	7437	6594	7881
80°	6195	5964	7675
85°	4889	5395	7622



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.1	3.1
10°-20°	796.3	8.8
20°-30°	1193.0	13.2
30°-40°	1401.6	15.5
40°-50°	1396.8	15.4
50°-60°	1204.3	13.3
60°-70°	910.3	10.1
70°-80°	596.2	6.6
80°-90°	317.0	3.5
90°-100°	204.5	2.3
100°-110°	200.2	2.2
110°-120°	180.1	2.0
120°-130°	145.8	1.6
130°-140°	101.6	1.1
140°-150°	61.4	0.7
150°-160°	33.1	0.4
160°-170°	17.5	0.2
170°-180°	5.3	0.1
0°-30°	2268.4	25.1
0°-40°	3670.0	40.6
0°-60°	6271.0	69.3
0°-90°	8094.5	89.5
90°-120°	584.8	6.5
90°-150°	893.6	9.9
90°-180°	949.0	10.5
0°-180°	9044.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2951	2951	2951	2951	2951	
5°	2954	2942	2922	2939	2934	281
15°	2834	2822	2811	2831	2820	798
25°	2586	2586	2583	2609	2600	1190
35°	2224	2233	2242	2259	2256	1390
45°	1769	1789	1811	1840	1840	1364
55°	1270	1290	1347	1396	1413	1136
65°	803	832	909	1000	1037	798
75°	410	447	552	675	726	437
85°	111	165	282	416	464	119
90°	0	63	182	308	350	8
95°	6	71	194	310	348	7
105°	26	83	202	299	325	26
115°	43	88	191	276	299	43
125°	54	83	168	242	265	49
135°	54	68	128	191	214	43
145°	51	66	88	134	151	33
155°	57	63	66	77	97	26
165°	60	63	63	57	66	17
175°	63	63	57	46	31	6
180°	51	51	51	51	51	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2950.7	2950.7	2950.7	2950.7	2950.7
2.5°	2967.8	2953.5	2933.6	2947.8	2942.1
5°	2953.5	2942.1	2922.2	2939.3	2933.6
7.5°	2939.3	2925.0	2908.0	2925.0	2916.5
10°	2908.0	2896.6	2879.5	2902.3	2890.9
12.5°	2873.8	2865.2	2851.0	2870.9	2862.4
15°	2833.9	2822.5	2811.1	2831.1	2819.7
17.5°	2779.8	2774.1	2765.5	2788.3	2776.9
20°	2725.7	2717.1	2711.4	2737.1	2722.8
22.5°	2654.5	2654.5	2648.8	2674.4	2671.6
25°	2586.1	2586.1	2583.3	2608.9	2600.4
27.5°	2506.4	2506.4	2509.2	2526.3	2520.6
30°	2420.9	2420.9	2426.6	2446.6	2440.9
32.5°	2326.9	2332.6	2332.6	2352.6	2346.9
35°	2224.4	2232.9	2241.5	2258.6	2255.7
37.5°	2119.0	2127.6	2136.1	2158.9	2153.2
40°	2007.9	2019.3	2036.4	2059.2	2056.4
42.5°	1894.0	1902.6	1928.2	1948.1	1951.0
45°	1768.7	1788.6	1811.4	1839.9	1839.9
47.5°	1649.1	1666.2	1697.5	1728.8	1731.7
50°	1515.2	1543.7	1580.7	1614.9	1626.3
52.5°	1392.7	1418.4	1466.8	1503.8	1515.2
55°	1270.3	1290.2	1347.2	1395.6	1412.7
57.5°	1150.7	1170.6	1233.2	1293.1	1310.1
60°	1028.2	1056.7	1122.2	1193.4	1216.2
62.5°	914.3	939.9	1016.8	1093.7	1125.0
65°	803.2	831.7	908.6	999.7	1036.7
67.5°	697.8	729.1	814.6	911.4	954.1
70°	592.4	626.6	720.6	828.8	874.4
72.5°	504.1	535.5	635.1	749.1	797.5
75°	410.1	447.2	552.5	675.0	726.3
77.5°	324.7	364.6	478.5	603.8	660.8
80°	242.1	293.4	407.3	538.3	589.6
82.5°	176.6	222.2	341.8	475.6	526.9
85°	111.1	165.2	282.0	415.8	464.2
87.5°	54.1	111.1	227.9	353.2	401.6
90°	0.0	62.7	182.3	307.6	350.3
92.5°	2.8	65.5	188.0	310.4	350.3
95°	5.7	71.2	193.7	310.4	347.5
97.5°	11.4	74.1	199.4	310.4	341.8
100°	17.1	76.9	202.2	307.6	336.1
102.5°	19.9	79.7	202.2	304.8	330.4
105°	25.6	82.6	202.2	299.1	324.7
107.5°	28.5	85.4	202.2	293.4	316.1
110°	34.2	85.4	199.4	287.7	310.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	39.9	88.3	196.5	282.0	304.8
115°	42.7	88.3	190.8	276.3	299.1
117.5°	48.4	88.3	188.0	267.7	293.4
120°	51.3	88.3	182.3	259.2	284.8
122.5°	54.1	85.4	173.7	250.6	276.3
125°	54.1	82.6	168.0	242.1	264.9
127.5°	57.0	79.7	159.5	227.9	253.5
130°	57.0	76.9	151.0	216.5	242.1
132.5°	57.0	71.2	139.6	205.1	227.9
135°	54.1	68.4	128.2	190.8	213.6
137.5°	54.1	68.4	116.8	176.6	196.5
140°	54.1	65.5	108.2	162.3	182.3
142.5°	54.1	65.5	96.8	148.1	165.2
145°	51.3	65.5	88.3	133.9	151.0
147.5°	51.3	65.5	79.7	119.6	133.9
150°	54.1	62.7	71.2	102.5	119.6
152.5°	54.1	62.7	65.5	91.1	108.2
155°	57.0	62.7	65.5	76.9	96.8
157.5°	57.0	62.7	62.7	68.4	85.4
160°	59.8	62.7	62.7	62.7	76.9
162.5°	59.8	62.7	62.7	59.8	71.2
165°	59.8	62.7	62.7	57.0	65.5
167.5°	62.7	62.7	59.8	54.1	62.7
170°	62.7	62.7	59.8	51.3	59.8
172.5°	62.7	62.7	59.8	48.4	51.3
175°	62.7	62.7	57.0	45.6	31.3
177.5°	62.7	62.7	57.0	45.6	22.8
180°	51.3	51.3	51.3	51.3	51.3

(END OF REPORT)