

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: P189067

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189067  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34815)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: RZL-WF-80L840-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH PERFORATED SIDES, 11-CELL LOUVER AND CURVED SMOOTH FROSTED LENS  
Light Source: (224) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8380.4 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 0.53' x L: 3.83' x H: 0')  
CIE Type: Direct

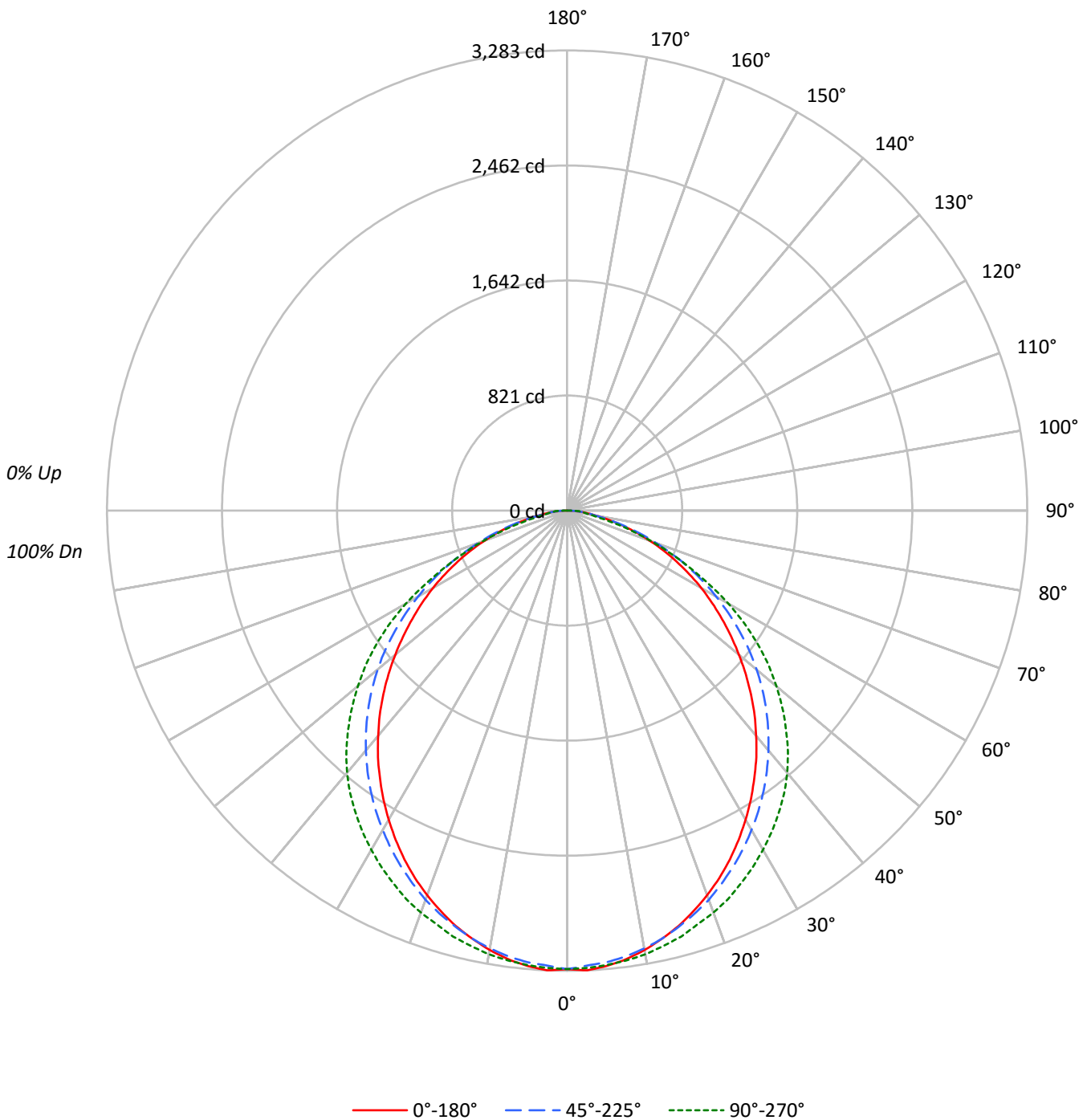
Input Watts (W): 74.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	17225	17225	17225
5°	17230	17095	17200
10°	17017	16956	17185
15°	16727	16758	17147
20°	16361	16553	17098
25°	15952	16283	17047
30°	15478	15999	16988
35°	14967	15702	16914
40°	14415	15357	16791
45°	13807	14956	16445
50°	13106	14463	15961
55°	12379	13770	15238
60°	11644	12937	13990
65°	10714	11889	12067
70°	9632	10380	9897
75°	8253	8544	7148
80°	6410	6325	4851
85°	5521	5697	6385



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.3	3.7
10°-20°	872.7	10.4
20°-30°	1301.4	15.5
30°-40°	1539.9	18.4
40°-50°	1556.1	18.6
50°-60°	1340.1	16.0
60°-70°	924.4	11.0
70°-80°	430.4	5.1
80°-90°	107.2	1.3
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°	2482.4	29.6
0°-40°	4022.3	48.0
0°-60°	6918.5	82.6
0°-90°	8380.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8380.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3272	3272	3272	3272	3272	
5°	3260	3249	3234	3260	3254	309
15°	3069	3066	3074	3132	3146	864
25°	2746	2760	2803	2900	2934	1264
35°	2329	2360	2443	2566	2632	1456
45°	1854	1903	2009	2137	2209	1430
55°	1349	1403	1500	1594	1660	1207
65°	860	900	954	963	969	853
75°	406	426	420	374	351	433
85°	91	94	94	103	106	105
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3271.6	3271.6	3271.6	3271.6	3271.6
2.5°	3283.0	3268.8	3248.7	3271.6	3265.9
5°	3260.2	3248.7	3234.5	3260.2	3254.5
7.5°	3228.7	3217.3	3208.7	3240.2	3237.3
10°	3183.0	3177.3	3171.6	3211.6	3214.5
12.5°	3128.7	3125.9	3128.7	3174.5	3180.2
15°	3068.7	3065.9	3074.5	3131.6	3145.9
17.5°	2997.3	3000.2	3017.3	3080.2	3094.5
20°	2920.2	2925.9	2954.4	3028.7	3051.6
22.5°	2837.3	2845.9	2880.2	2965.9	3000.2
25°	2745.9	2760.2	2803.0	2900.2	2934.4
27.5°	2648.7	2665.9	2720.1	2823.0	2868.7
30°	2545.9	2568.7	2631.6	2743.0	2794.4
32.5°	2440.1	2465.8	2540.1	2657.3	2717.3
35°	2328.7	2360.1	2443.0	2565.9	2631.6
37.5°	2217.3	2251.6	2340.1	2471.6	2543.0
40°	2097.3	2134.4	2234.4	2368.7	2443.0
42.5°	1980.1	2020.1	2123.0	2260.1	2331.6
45°	1854.4	1903.0	2008.7	2137.3	2208.7
47.5°	1728.7	1777.2	1888.7	2005.8	2083.0
50°	1600.1	1654.4	1765.8	1874.4	1948.7
52.5°	1474.4	1534.4	1637.2	1737.2	1811.5
55°	1348.6	1402.9	1500.1	1594.4	1660.1
57.5°	1225.8	1277.2	1365.8	1445.8	1500.1
60°	1105.8	1151.5	1228.6	1288.6	1328.6
62.5°	982.9	1028.6	1091.5	1125.8	1145.8
65°	860.0	900.0	954.3	962.9	968.6
67.5°	742.9	780.0	814.3	800.0	802.9
70°	625.7	657.2	674.3	645.7	642.9
72.5°	514.3	537.2	545.7	505.7	491.5
75°	405.7	425.7	420.0	374.3	351.4
77.5°	302.9	320.0	305.7	257.2	228.6
80°	211.4	220.0	208.6	168.6	160.0
82.5°	148.6	148.6	140.0	137.2	134.3
85°	91.4	94.3	94.3	102.9	105.7
87.5°	40.0	45.7	51.4	71.4	77.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)