

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: P189042

Luminaire Tested: **RZL-WL-80L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189042  
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-80L830-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH LUMINOUS SIDES AND SNAP-ON FROSTED LINEAR PRISMATIC LENS  
Light Source: (224) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8533.4 lumens  
Efficiency: N/A  
Efficacy: 114.1 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

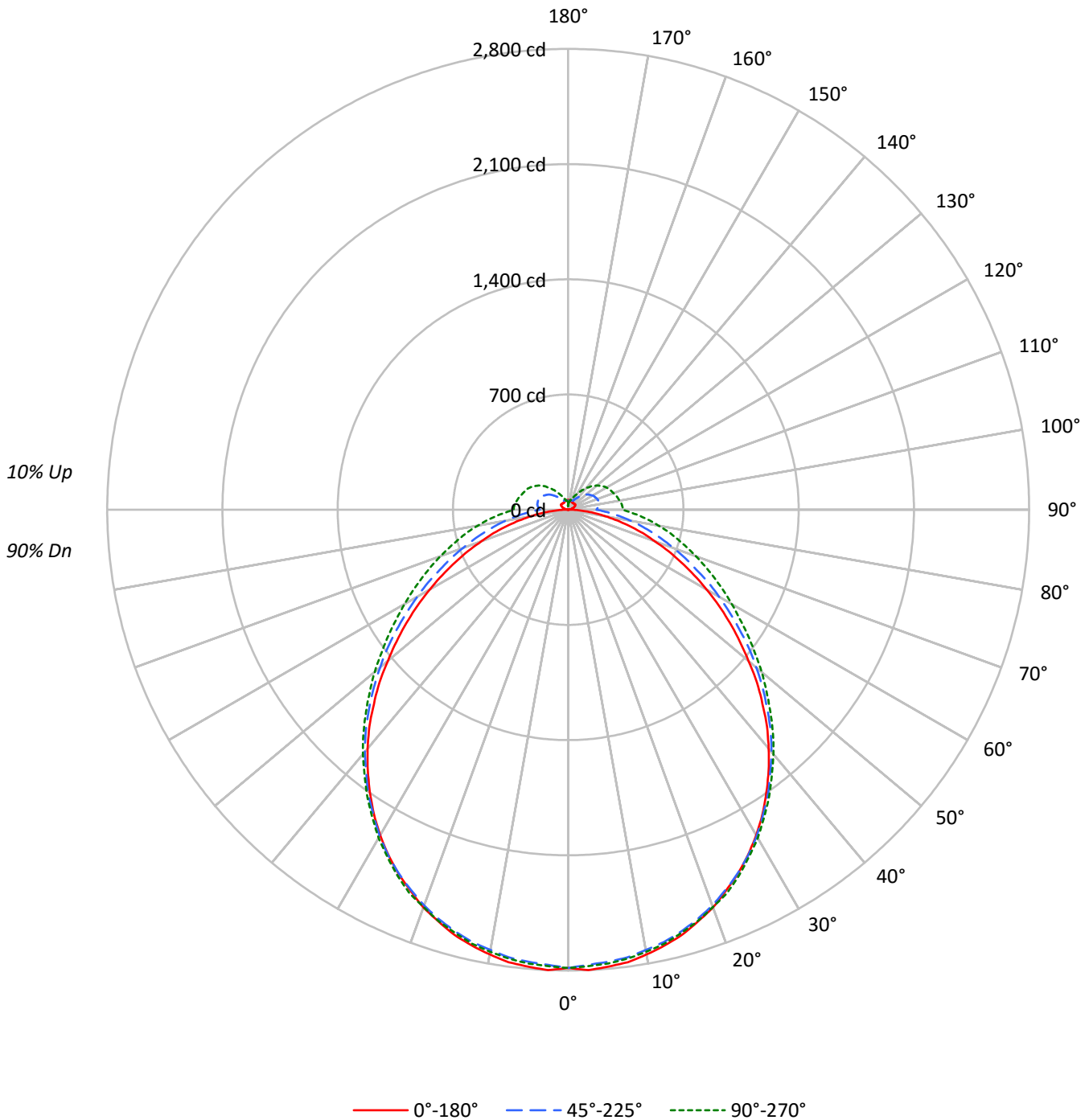
Input Watts (W): 74.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	14658	14658	14658
5°	14687	14336	14335
10°	14585	14057	14004
15°	14448	13762	13645
20°	14240	13413	13263
25°	13963	13014	12849
30°	13631	12552	12333
35°	13189	12007	11751
40°	12675	11400	11144
45°	12034	10705	10472
50°	11272	9973	9825
55°	10513	9190	9167
60°	9669	8402	8594
65°	8824	7602	8110
70°	7898	6892	7725
75°	7018	6222	7436
80°	5844	5627	7241
85°	4612	5090	7192



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.3	3.1
10°-20°	751.4	8.8
20°-30°	1125.7	13.2
30°-40°	1322.5	15.5
40°-50°	1317.9	15.4
50°-60°	1136.3	13.3
60°-70°	858.9	10.1
70°-80°	562.5	6.6
80°-90°	299.1	3.5
90°-100°	192.9	2.3
100°-110°	188.9	2.2
110°-120°	169.9	2.0
120°-130°	137.5	1.6
130°-140°	95.8	1.1
140°-150°	58.0	0.7
150°-160°	31.3	0.4
160°-170°	16.5	0.2
170°-180°	5.0	0.1
0°-30°	2140.3	25.1
0°-40°	3462.9	40.6
0°-60°	5917.1	69.3
0°-90°	7637.6	89.5
90°-120°	551.8	6.5
90°-150°	843.1	9.9
90°-180°	896.0	10.5
0°-180°	8533.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2784	2784	2784	2784	2784	
5°	2787	2776	2757	2773	2768	265
15°	2674	2663	2652	2671	2660	753
25°	2440	2440	2438	2462	2454	1123
35°	2099	2107	2115	2131	2128	1312
45°	1669	1688	1709	1736	1736	1287
55°	1199	1217	1271	1317	1333	1072
65°	758	785	857	943	978	753
75°	387	422	521	637	685	412
85°	105	156	266	392	438	112
90°	0	59	172	290	330	7
95°	5	67	183	293	328	7
105°	24	78	191	282	306	25
115°	40	83	180	261	282	41
125°	51	78	159	228	250	46
135°	51	64	121	180	202	40
145°	48	62	83	126	142	31
155°	54	59	62	73	91	24
165°	56	59	59	54	62	16
175°	59	59	54	43	30	6
180°	48	48	48	48	48	



TEST NUMBER: P189042

CATALOG NUMBER: RZL-WL-80L830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2784.1	2784.1	2784.1	2784.1	2784.1
2.5°	2800.3	2786.8	2768.0	2781.4	2776.1
5°	2786.8	2776.1	2757.3	2773.4	2768.0
7.5°	2773.4	2759.9	2743.8	2759.9	2751.9
10°	2743.8	2733.1	2716.9	2738.4	2727.7
12.5°	2711.6	2703.5	2690.1	2708.9	2700.8
15°	2673.9	2663.2	2652.5	2671.3	2660.5
17.5°	2622.9	2617.5	2609.5	2631.0	2620.2
20°	2571.8	2563.8	2558.4	2582.6	2569.1
22.5°	2504.6	2504.6	2499.3	2523.5	2520.8
25°	2440.1	2440.1	2437.5	2461.6	2453.6
27.5°	2364.9	2364.9	2367.6	2383.7	2378.3
30°	2284.3	2284.3	2289.7	2308.5	2303.1
32.5°	2195.6	2201.0	2201.0	2219.8	2214.4
35°	2098.8	2106.9	2115.0	2131.1	2128.4
37.5°	1999.4	2007.5	2015.5	2037.0	2031.7
40°	1894.6	1905.4	1921.5	1943.0	1940.3
42.5°	1787.1	1795.2	1819.4	1838.2	1840.9
45°	1668.9	1687.7	1709.2	1736.1	1736.1
47.5°	1556.0	1572.1	1601.7	1631.2	1633.9
50°	1429.7	1456.6	1491.5	1523.7	1534.5
52.5°	1314.1	1338.3	1384.0	1418.9	1429.7
55°	1198.6	1217.4	1271.1	1316.8	1332.9
57.5°	1085.7	1104.5	1163.6	1220.1	1236.2
60°	970.1	997.0	1058.8	1126.0	1147.5
62.5°	862.7	886.8	959.4	1032.0	1061.5
65°	757.8	784.7	857.3	943.3	978.2
67.5°	658.4	688.0	768.6	860.0	900.3
70°	559.0	591.2	679.9	782.0	825.0
72.5°	475.7	505.2	599.3	706.8	752.5
75°	387.0	421.9	521.4	636.9	685.3
77.5°	306.4	344.0	451.5	569.7	623.5
80°	228.4	276.8	384.3	507.9	556.3
82.5°	166.6	209.6	322.5	448.8	497.2
85°	104.8	155.9	266.1	392.4	438.0
87.5°	51.1	104.8	215.0	333.2	378.9
90°	0.0	59.1	172.0	290.2	330.5
92.5°	2.7	61.8	177.4	292.9	330.5
95°	5.4	67.2	182.7	292.9	327.9
97.5°	10.7	69.9	188.1	292.9	322.5
100°	16.1	72.6	190.8	290.2	317.1
102.5°	18.8	75.2	190.8	287.6	311.7
105°	24.2	77.9	190.8	282.2	306.4
107.5°	26.9	80.6	190.8	276.8	298.3
110°	32.2	80.6	188.1	271.4	292.9



TEST NUMBER: P189042

CATALOG NUMBER: RZL-WL-80L830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	37.6	83.3	185.4	266.1	287.6
115°	40.3	83.3	180.1	260.7	282.2
117.5°	45.7	83.3	177.4	252.6	276.8
120°	48.4	83.3	172.0	244.6	268.7
122.5°	51.1	80.6	163.9	236.5	260.7
125°	51.1	77.9	158.6	228.4	249.9
127.5°	53.7	75.2	150.5	215.0	239.2
130°	53.7	72.6	142.4	204.2	228.4
132.5°	53.7	67.2	131.7	193.5	215.0
135°	51.1	64.5	120.9	180.1	201.6
137.5°	51.1	64.5	110.2	166.6	185.4
140°	51.1	61.8	102.1	153.2	172.0
142.5°	51.1	61.8	91.4	139.7	155.9
145°	48.4	61.8	83.3	126.3	142.4
147.5°	48.4	61.8	75.2	112.9	126.3
150°	51.1	59.1	67.2	96.7	112.9
152.5°	51.1	59.1	61.8	86.0	102.1
155°	53.7	59.1	61.8	72.6	91.4
157.5°	53.7	59.1	59.1	64.5	80.6
160°	56.4	59.1	59.1	59.1	72.6
162.5°	56.4	59.1	59.1	56.4	67.2
165°	56.4	59.1	59.1	53.7	61.8
167.5°	59.1	59.1	56.4	51.1	59.1
170°	59.1	59.1	56.4	48.4	56.4
172.5°	59.1	59.1	56.4	45.7	48.4
175°	59.1	59.1	53.7	43.0	29.6
177.5°	59.1	59.1	53.7	43.0	21.5
180°	48.4	48.4	48.4	48.4	48.4

(END OF REPORT)