

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: P189041

Luminaire Tested: **RZL-WL-680L8830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189041  
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-680L8830-1D-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: 6949.4 lumens  
Efficiency: N/A  
Efficacy: 123.0 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

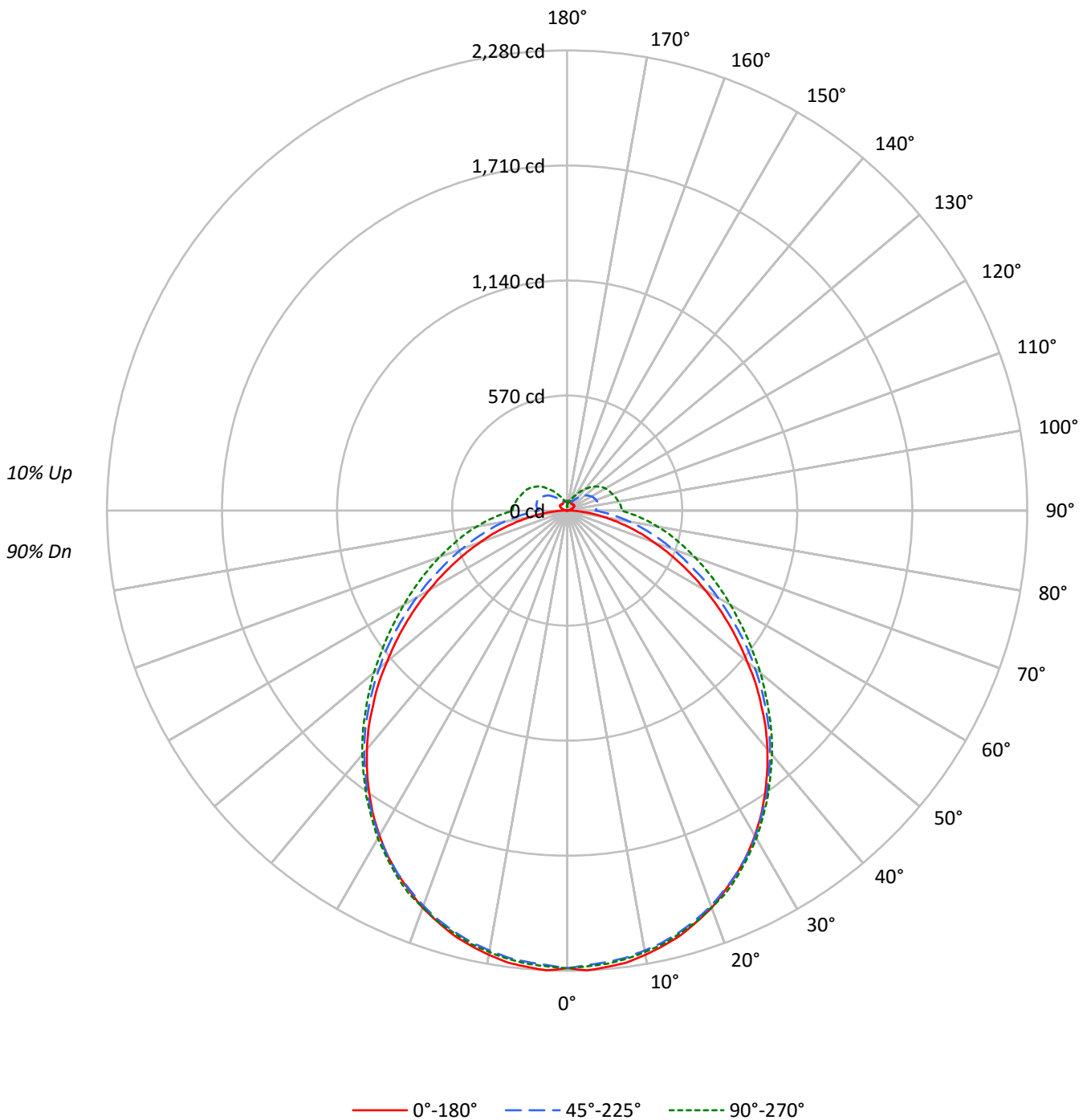
Input Watts (W): 56.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P189041

CATALOG NUMBER: RZL-WL-680L8830-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P189041

CATALOG NUMBER: RZL-WL-680L8830-1D-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	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°	11937	11937	11937
5°	11960	11674	11674
10°	11878	11448	11405
15°	11767	11207	11112
20°	11597	10923	10801
25°	11371	10598	10464
30°	11101	10222	10044
35°	10741	9778	9570
40°	10322	9284	9075
45°	9800	8718	8528
50°	9180	8121	8001
55°	8561	7484	7465
60°	7875	6843	6999
65°	7187	6191	6604
70°	6431	5612	6292
75°	5716	5067	6056
80°	4759	4583	5897
85°	3758	4145	5857



TEST NUMBER: P189041

CATALOG NUMBER: RZL-WL-680L8830-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.4	3.1
10°-20°	611.9	8.8
20°-30°	916.7	13.2
30°-40°	1077.0	15.5
40°-50°	1073.3	15.4
50°-60°	925.4	13.3
60°-70°	699.5	10.1
70°-80°	458.1	6.6
80°-90°	243.6	3.5
90°-100°	157.1	2.3
100°-110°	153.9	2.2
110°-120°	138.4	2.0
120°-130°	112.0	1.6
130°-140°	78.0	1.1
140°-150°	47.2	0.7
150°-160°	25.4	0.4
160°-170°	13.4	0.2
170°-180°	4.1	0.1
0°-30°	1743.0	25.1
0°-40°	2820.1	40.6
0°-60°	4818.7	69.3
0°-90°	6219.9	89.5
90°-120°	449.4	6.5
90°-150°	686.6	9.9
90°-180°	730.0	10.5
0°-180°	6949.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2267	2267	2267	2267	2267	
5°	2270	2261	2245	2259	2254	216
15°	2178	2169	2160	2175	2167	614
25°	1987	1987	1985	2005	1998	915
35°	1709	1716	1722	1736	1733	1068
45°	1359	1374	1392	1414	1414	1048
55°	976	991	1035	1072	1086	873
65°	617	639	698	768	797	613
75°	315	344	425	519	558	336
85°	85	127	217	320	357	91
90°	0	48	140	236	269	6
95°	4	55	149	239	267	6
105°	20	64	155	230	250	20
115°	33	68	147	212	230	33
125°	42	64	129	186	204	38
135°	42	52	98	147	164	33
145°	39	50	68	103	116	25
155°	44	48	50	59	74	20
165°	46	48	48	44	50	13
175°	48	48	44	35	24	5
180°	39	39	39	39	39	



TEST NUMBER: P189041

CATALOG NUMBER: RZL-WL-680L8830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2267.3	2267.3	2267.3	2267.3	2267.3
2.5°	2280.5	2269.5	2254.2	2265.1	2260.8
5°	2269.5	2260.8	2245.4	2258.6	2254.2
7.5°	2258.6	2247.6	2234.5	2247.6	2241.1
10°	2234.5	2225.8	2212.6	2230.1	2221.4
12.5°	2208.2	2201.7	2190.7	2206.1	2199.5
15°	2177.6	2168.9	2160.1	2175.4	2166.7
17.5°	2136.0	2131.6	2125.1	2142.6	2133.8
20°	2094.4	2087.9	2083.5	2103.2	2092.3
22.5°	2039.7	2039.7	2035.3	2055.0	2052.9
25°	1987.2	1987.2	1985.0	2004.7	1998.1
27.5°	1925.9	1925.9	1928.1	1941.2	1936.9
30°	1860.3	1860.3	1864.6	1880.0	1875.6
32.5°	1788.0	1792.4	1792.4	1807.7	1803.4
35°	1709.3	1715.8	1722.4	1735.5	1733.3
37.5°	1628.3	1634.8	1641.4	1658.9	1654.5
40°	1542.9	1551.7	1564.8	1582.3	1580.1
42.5°	1455.4	1461.9	1481.6	1497.0	1499.2
45°	1359.1	1374.4	1391.9	1413.8	1413.8
47.5°	1267.2	1280.3	1304.4	1328.4	1330.6
50°	1164.3	1186.2	1214.6	1240.9	1249.7
52.5°	1070.2	1089.9	1127.1	1155.6	1164.3
55°	976.1	991.4	1035.2	1072.4	1085.5
57.5°	884.2	899.5	947.6	993.6	1006.7
60°	790.1	812.0	862.3	917.0	934.5
62.5°	702.5	722.2	781.3	840.4	864.5
65°	617.2	639.1	698.1	768.2	796.6
67.5°	536.2	560.3	625.9	700.3	733.2
70°	455.2	481.5	553.7	636.9	671.9
72.5°	387.4	411.4	488.0	575.6	612.8
75°	315.2	343.6	424.6	518.7	558.1
77.5°	249.5	280.1	367.7	464.0	507.7
80°	186.0	225.4	313.0	413.6	453.0
82.5°	135.7	170.7	262.6	365.5	404.9
85°	85.4	126.9	216.7	319.5	356.7
87.5°	41.6	85.4	175.1	271.4	308.6
90°	0.0	48.1	140.1	236.4	269.2
92.5°	2.2	50.3	144.4	238.6	269.2
95°	4.4	54.7	148.8	238.6	267.0
97.5°	8.8	56.9	153.2	238.6	262.6
100°	13.1	59.1	155.4	236.4	258.2
102.5°	15.3	61.3	155.4	234.2	253.9
105°	19.7	63.5	155.4	229.8	249.5
107.5°	21.9	65.7	155.4	225.4	242.9
110°	26.3	65.7	153.2	221.0	238.6



TEST NUMBER: P189041

CATALOG NUMBER: RZL-WL-680L8830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	30.6	67.8	151.0	216.7	234.2
115°	32.8	67.8	146.6	212.3	229.8
117.5°	37.2	67.8	144.4	205.7	225.4
120°	39.4	67.8	140.1	199.2	218.9
122.5°	41.6	65.7	133.5	192.6	212.3
125°	41.6	63.5	129.1	186.0	203.5
127.5°	43.8	61.3	122.6	175.1	194.8
130°	43.8	59.1	116.0	166.3	186.0
132.5°	43.8	54.7	107.2	157.6	175.1
135°	41.6	52.5	98.5	146.6	164.1
137.5°	41.6	52.5	89.7	135.7	151.0
140°	41.6	50.3	83.2	124.7	140.1
142.5°	41.6	50.3	74.4	113.8	126.9
145°	39.4	50.3	67.8	102.9	116.0
147.5°	39.4	50.3	61.3	91.9	102.9
150°	41.6	48.1	54.7	78.8	91.9
152.5°	41.6	48.1	50.3	70.0	83.2
155°	43.8	48.1	50.3	59.1	74.4
157.5°	43.8	48.1	48.1	52.5	65.7
160°	46.0	48.1	48.1	48.1	59.1
162.5°	46.0	48.1	48.1	46.0	54.7
165°	46.0	48.1	48.1	43.8	50.3
167.5°	48.1	48.1	46.0	41.6	48.1
170°	48.1	48.1	46.0	39.4	46.0
172.5°	48.1	48.1	46.0	37.2	39.4
175°	48.1	48.1	43.8	35.0	24.1
177.5°	48.1	48.1	43.8	35.0	17.5
180°	39.4	39.4	39.4	39.4	39.4

(END OF REPORT)