

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: P189046

Luminaire Tested: **RZL-WL-680L8835-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189046
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-680L8835-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH LUMINOUS SIDES AND SNAP-ON FROSTED LINEAR PRISMATIC LENS
Light Source: (224) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7189.8 lumens
Efficiency: N/A
Efficacy: 127.3 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

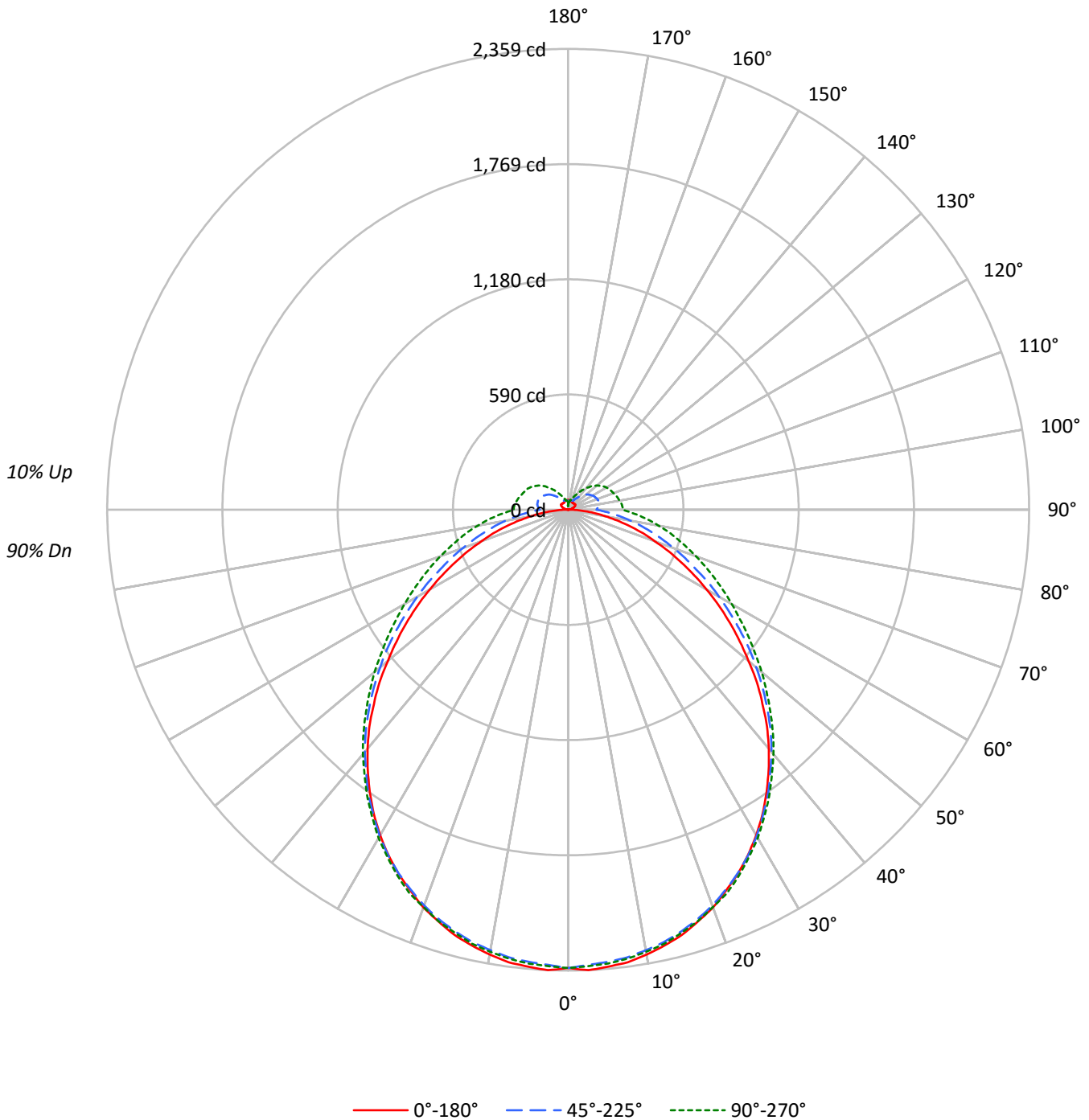
Input Watts (W): 56.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12351	12351	12351
5°	12374	12078	12078
10°	12289	11844	11799
15°	12173	11595	11496
20°	11998	11301	11175
25°	11764	10965	10826
30°	11484	10575	10391
35°	11112	10116	9901
40°	10679	9605	9389
45°	10139	9020	8823
50°	9498	8403	8278
55°	8858	7743	7724
60°	8147	7079	7241
65°	7435	6405	6833
70°	6654	5807	6509
75°	5914	5243	6265
80°	4926	4741	6101
85°	3886	4289	6061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.9	3.1
10°-20°	633.0	8.8
20°-30°	948.4	13.2
30°-40°	1114.3	15.5
40°-50°	1110.4	15.4
50°-60°	957.4	13.3
60°-70°	723.7	10.1
70°-80°	474.0	6.6
80°-90°	252.0	3.5
90°-100°	162.5	2.3
100°-110°	159.2	2.2
110°-120°	143.2	2.0
120°-130°	115.9	1.6
130°-140°	80.7	1.1
140°-150°	48.9	0.7
150°-160°	26.3	0.4
160°-170°	13.9	0.2
170°-180°	4.2	0.1
0°-30°	1803.3	25.1
0°-40°	2917.6	40.6
0°-60°	4985.4	69.3
0°-90°	6435.1	89.5
90°-120°	464.9	6.5
90°-150°	710.3	9.9
90°-180°	755.0	10.5
0°-180°	7189.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2346	2346	2346	2346	2346	
5°	2348	2339	2323	2337	2332	223
15°	2253	2244	2235	2251	2242	635
25°	2056	2056	2054	2074	2067	946
35°	1768	1775	1782	1796	1793	1105
45°	1406	1422	1440	1463	1463	1085
55°	1010	1026	1071	1110	1123	903
65°	638	661	722	795	824	634
75°	326	356	439	537	577	347
85°	88	131	224	331	369	94
90°	0	50	145	244	278	6
95°	4	57	154	247	276	6
105°	20	66	161	238	258	21
115°	34	70	152	220	238	34
125°	43	66	134	192	211	39
135°	43	54	102	152	170	34
145°	41	52	70	106	120	26
155°	45	50	52	61	77	21
165°	48	50	50	45	52	14
175°	50	50	45	36	25	5
180°	41	41	41	41	41	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2345.8	2345.8	2345.8	2345.8	2345.8
2.5°	2359.4	2348.0	2332.2	2343.5	2339.0
5°	2348.0	2339.0	2323.1	2336.7	2332.2
7.5°	2336.7	2325.4	2311.8	2325.4	2318.6
10°	2311.8	2302.8	2289.2	2307.3	2298.2
12.5°	2284.6	2277.8	2266.5	2282.4	2275.6
15°	2252.9	2243.9	2234.8	2250.7	2241.6
17.5°	2209.9	2205.4	2198.6	2216.7	2207.7
20°	2166.9	2160.1	2155.6	2176.0	2164.6
22.5°	2110.3	2110.3	2105.8	2126.1	2123.9
25°	2055.9	2055.9	2053.7	2074.1	2067.3
27.5°	1992.5	1992.5	1994.8	2008.4	2003.9
30°	1924.6	1924.6	1929.1	1945.0	1940.5
32.5°	1849.9	1854.4	1854.4	1870.3	1865.7
35°	1768.4	1775.2	1782.0	1795.6	1793.3
37.5°	1684.6	1691.4	1698.2	1716.3	1711.8
40°	1596.3	1605.4	1618.9	1637.1	1634.8
42.5°	1505.7	1512.5	1532.9	1548.8	1551.0
45°	1406.1	1422.0	1440.1	1462.7	1462.7
47.5°	1311.0	1324.6	1349.5	1374.4	1376.7
50°	1204.6	1227.2	1256.7	1283.8	1292.9
52.5°	1107.2	1127.6	1166.1	1195.5	1204.6
55°	1009.9	1025.7	1071.0	1109.5	1123.1
57.5°	914.8	930.6	980.4	1028.0	1041.6
60°	817.4	840.0	892.1	948.7	966.8
62.5°	726.8	747.2	808.3	869.5	894.4
65°	638.5	661.2	722.3	794.8	824.2
67.5°	554.7	579.7	647.6	724.6	758.5
70°	471.0	498.1	572.9	658.9	695.1
72.5°	400.8	425.7	504.9	595.5	634.0
75°	326.1	355.5	439.3	536.6	577.4
77.5°	258.1	289.8	380.4	480.0	525.3
80°	192.5	233.2	323.8	427.9	468.7
82.5°	140.4	176.6	271.7	378.1	418.9
85°	88.3	131.3	224.2	330.6	369.1
87.5°	43.0	88.3	181.1	280.8	319.3
90°	0.0	49.8	144.9	244.5	278.5
92.5°	2.3	52.1	149.4	246.8	278.5
95°	4.5	56.6	154.0	246.8	276.2
97.5°	9.1	58.9	158.5	246.8	271.7
100°	13.6	61.1	160.8	244.5	267.2
102.5°	15.8	63.4	160.8	242.3	262.7
105°	20.4	65.7	160.8	237.7	258.1
107.5°	22.6	67.9	160.8	233.2	251.3
110°	27.2	67.9	158.5	228.7	246.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	31.7	70.2	156.2	224.2	242.3
115°	34.0	70.2	151.7	219.6	237.7
117.5°	38.5	70.2	149.4	212.8	233.2
120°	40.8	70.2	144.9	206.0	226.4
122.5°	43.0	67.9	138.1	199.3	219.6
125°	43.0	65.7	133.6	192.5	210.6
127.5°	45.3	63.4	126.8	181.1	201.5
130°	45.3	61.1	120.0	172.1	192.5
132.5°	45.3	56.6	110.9	163.0	181.1
135°	43.0	54.3	101.9	151.7	169.8
137.5°	43.0	54.3	92.8	140.4	156.2
140°	43.0	52.1	86.0	129.1	144.9
142.5°	43.0	52.1	77.0	117.7	131.3
145°	40.8	52.1	70.2	106.4	120.0
147.5°	40.8	52.1	63.4	95.1	106.4
150°	43.0	49.8	56.6	81.5	95.1
152.5°	43.0	49.8	52.1	72.5	86.0
155°	45.3	49.8	52.1	61.1	77.0
157.5°	45.3	49.8	49.8	54.3	67.9
160°	47.5	49.8	49.8	49.8	61.1
162.5°	47.5	49.8	49.8	47.5	56.6
165°	47.5	49.8	49.8	45.3	52.1
167.5°	49.8	49.8	47.5	43.0	49.8
170°	49.8	49.8	47.5	40.8	47.5
172.5°	49.8	49.8	47.5	38.5	40.8
175°	49.8	49.8	45.3	36.2	24.9
177.5°	49.8	49.8	45.3	36.2	18.1
180°	40.8	40.8	40.8	40.8	40.8

(END OF REPORT)