

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: P189051

Luminaire Tested: **RZL-WL-680L8840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189051
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-680L8840-1D-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: 7365.1 lumens
Efficiency: N/A
Efficacy: 130.4 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

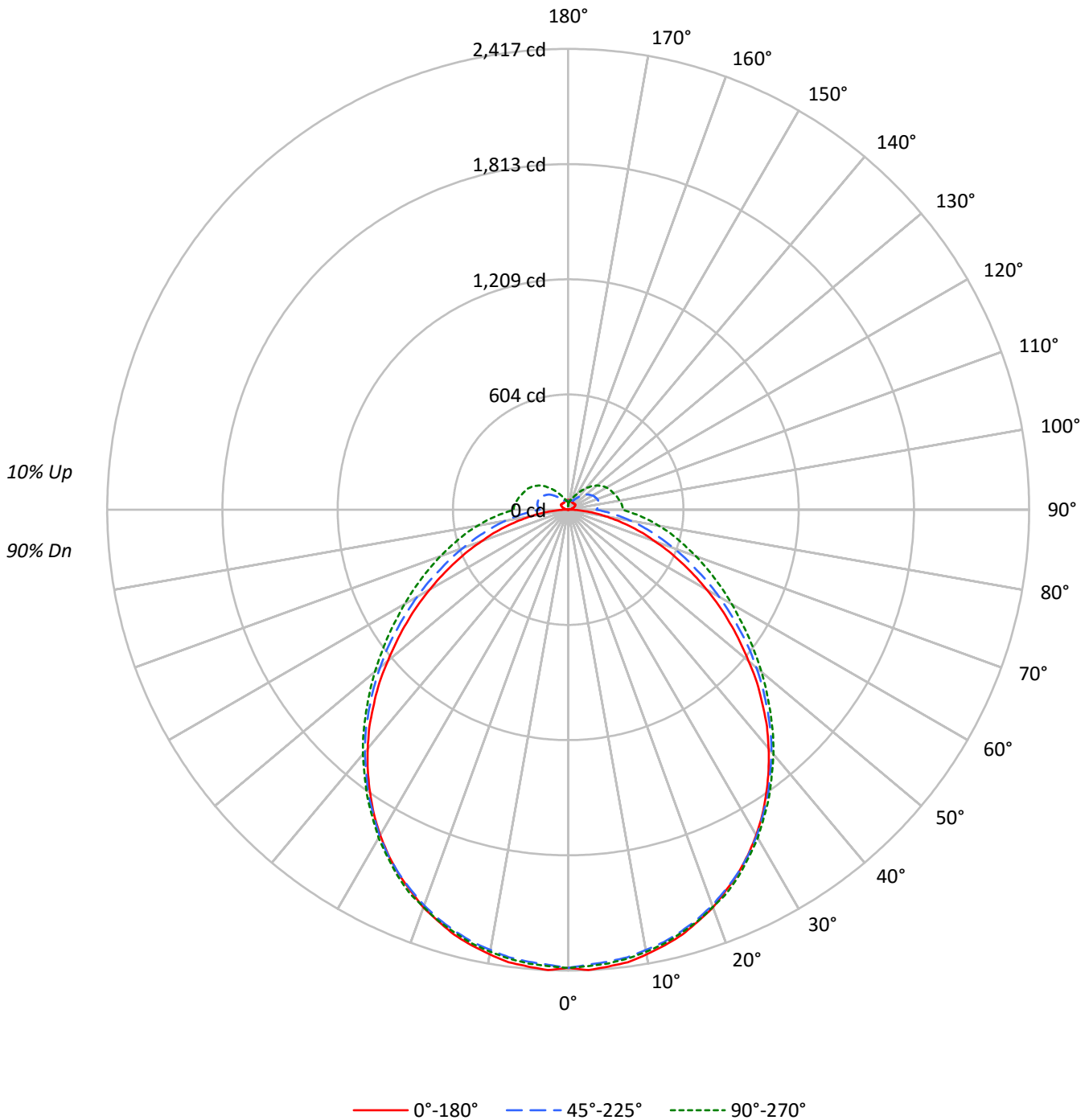
Input Watts (W): 56.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12652	12652	12652
5°	12676	12373	12372
10°	12588	12133	12087
15°	12471	11877	11777
20°	12291	11576	11447
25°	12052	11233	11090
30°	11764	10833	10644
35°	11383	10363	10143
40°	10939	9839	9618
45°	10386	9240	9038
50°	9729	8607	8479
55°	9073	7932	7912
60°	8345	7252	7418
65°	7616	6561	7000
70°	6815	5948	6668
75°	6057	5370	6418
80°	5046	4857	6250
85°	3983	4392	6208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.3	3.1
10°-20°	648.5	8.8
20°-30°	971.5	13.2
30°-40°	1141.5	15.5
40°-50°	1137.5	15.4
50°-60°	980.7	13.3
60°-70°	741.3	10.1
70°-80°	485.5	6.6
80°-90°	258.2	3.5
90°-100°	166.5	2.3
100°-110°	163.1	2.2
110°-120°	146.7	2.0
120°-130°	118.7	1.6
130°-140°	82.7	1.1
140°-150°	50.0	0.7
150°-160°	27.0	0.4
160°-170°	14.2	0.2
170°-180°	4.3	0.1
0°-30°	1847.3	25.1
0°-40°	2988.8	40.6
0°-60°	5107.0	69.3
0°-90°	6591.9	89.5
90°-120°	476.2	6.5
90°-150°	727.7	9.9
90°-180°	773.0	10.5
0°-180°	7365.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2403	2403	2403	2403	2403	
5°	2405	2396	2380	2394	2389	229
15°	2308	2299	2289	2306	2296	650
25°	2106	2106	2104	2125	2118	969
35°	1812	1818	1825	1839	1837	1132
45°	1440	1457	1475	1498	1498	1111
55°	1034	1051	1097	1136	1150	925
65°	654	677	740	814	844	650
75°	334	364	450	550	592	356
85°	90	134	230	339	378	97
90°	0	51	148	250	285	6
95°	5	58	158	253	283	6
105°	21	67	165	244	264	21
115°	35	72	155	225	244	35
125°	44	67	137	197	216	40
135°	44	56	104	155	174	35
145°	42	53	72	109	123	27
155°	46	51	53	63	79	21
165°	49	51	51	46	53	14
175°	51	51	46	37	26	5
180°	42	42	42	42	42	



TEST NUMBER: P189051

CATALOG NUMBER: RZL-WL-680L8840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2403.0	2403.0	2403.0	2403.0	2403.0
2.5°	2416.9	2405.3	2389.0	2400.6	2396.0
5°	2405.3	2396.0	2379.8	2393.7	2389.0
7.5°	2393.7	2382.1	2368.2	2382.1	2375.1
10°	2368.2	2358.9	2345.0	2363.5	2354.3
12.5°	2340.3	2333.4	2321.8	2338.0	2331.1
15°	2307.9	2298.6	2289.3	2305.5	2296.3
17.5°	2263.8	2259.2	2252.2	2270.8	2261.5
20°	2219.7	2212.8	2208.1	2229.0	2217.4
22.5°	2161.7	2161.7	2157.1	2178.0	2175.7
25°	2106.1	2106.1	2103.8	2124.6	2117.7
27.5°	2041.1	2041.1	2043.4	2057.4	2052.7
30°	1971.5	1971.5	1976.2	1992.4	1987.8
32.5°	1895.0	1899.6	1899.6	1915.9	1911.2
35°	1811.5	1818.5	1825.4	1839.3	1837.0
37.5°	1725.7	1732.6	1739.6	1758.2	1753.5
40°	1635.2	1644.5	1658.4	1677.0	1674.7
42.5°	1542.4	1549.4	1570.3	1586.5	1588.8
45°	1440.4	1456.6	1475.2	1498.4	1498.4
47.5°	1343.0	1356.9	1382.4	1407.9	1410.2
50°	1234.0	1257.2	1287.3	1315.1	1324.4
52.5°	1134.2	1155.1	1194.5	1224.7	1234.0
55°	1034.5	1050.7	1097.1	1136.5	1150.5
57.5°	937.1	953.3	1004.3	1053.0	1067.0
60°	837.3	860.5	913.9	971.9	990.4
62.5°	744.5	765.4	828.0	890.7	916.2
65°	654.1	677.3	739.9	814.1	844.3
67.5°	568.3	593.8	663.4	742.2	777.0
70°	482.4	510.3	586.8	675.0	712.1
72.5°	410.5	436.1	517.2	610.0	649.5
75°	334.0	364.2	450.0	549.7	591.5
77.5°	264.4	296.9	389.7	491.7	538.1
80°	197.2	238.9	331.7	438.4	480.1
82.5°	143.8	180.9	278.3	387.4	429.1
85°	90.5	134.5	229.6	338.6	378.1
87.5°	44.1	90.5	185.6	287.6	327.0
90°	0.0	51.0	148.4	250.5	285.3
92.5°	2.3	53.3	153.1	252.8	285.3
95°	4.6	58.0	157.7	252.8	283.0
97.5°	9.3	60.3	162.4	252.8	278.3
100°	13.9	62.6	164.7	250.5	273.7
102.5°	16.2	64.9	164.7	248.2	269.1
105°	20.9	67.3	164.7	243.5	264.4
107.5°	23.2	69.6	164.7	238.9	257.5
110°	27.8	69.6	162.4	234.3	252.8



TEST NUMBER: P189051

CATALOG NUMBER: RZL-WL-680L8840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	32.5	71.9	160.0	229.6	248.2
115°	34.8	71.9	155.4	225.0	243.5
117.5°	39.4	71.9	153.1	218.0	238.9
120°	41.8	71.9	148.4	211.1	231.9
122.5°	44.1	69.6	141.5	204.1	225.0
125°	44.1	67.3	136.8	197.2	215.7
127.5°	46.4	64.9	129.9	185.6	206.4
130°	46.4	62.6	122.9	176.3	197.2
132.5°	46.4	58.0	113.7	167.0	185.6
135°	44.1	55.7	104.4	155.4	174.0
137.5°	44.1	55.7	95.1	143.8	160.0
140°	44.1	53.3	88.1	132.2	148.4
142.5°	44.1	53.3	78.9	120.6	134.5
145°	41.8	53.3	71.9	109.0	122.9
147.5°	41.8	53.3	64.9	97.4	109.0
150°	44.1	51.0	58.0	83.5	97.4
152.5°	44.1	51.0	53.3	74.2	88.1
155°	46.4	51.0	53.3	62.6	78.9
157.5°	46.4	51.0	51.0	55.7	69.6
160°	48.7	51.0	51.0	51.0	62.6
162.5°	48.7	51.0	51.0	48.7	58.0
165°	48.7	51.0	51.0	46.4	53.3
167.5°	51.0	51.0	48.7	44.1	51.0
170°	51.0	51.0	48.7	41.8	48.7
172.5°	51.0	51.0	48.7	39.4	41.8
175°	51.0	51.0	46.4	37.1	25.5
177.5°	51.0	51.0	46.4	37.1	18.6
180°	41.8	41.8	41.8	41.8	41.8

(END OF REPORT)