

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: P189050

Luminaire Tested: **RZL-WL-50L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189050
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-50L840-1D-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: 5646.4 lumens
Efficiency: N/A
Efficacy: 138.1 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

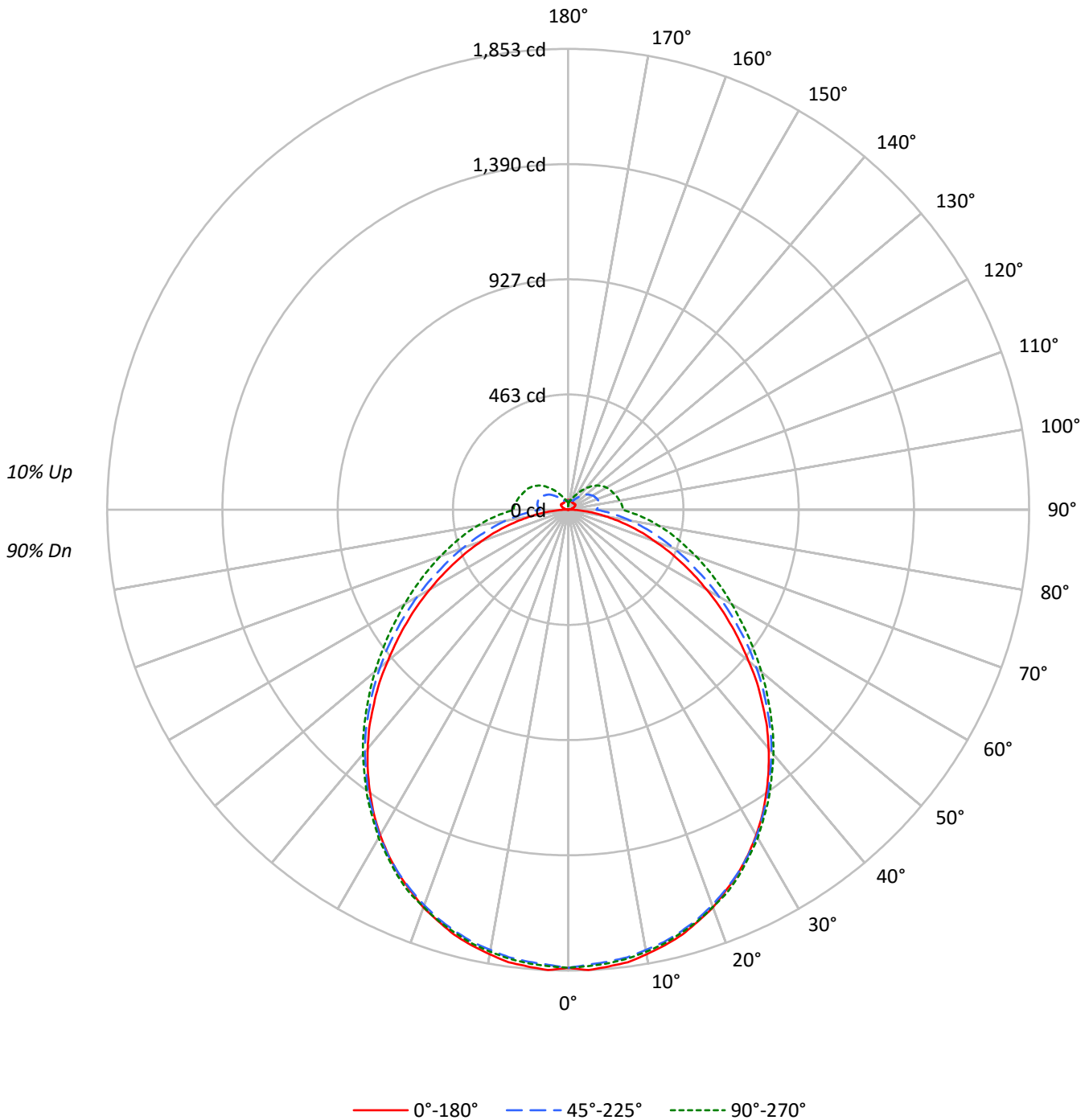
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9699	9699	9699
5°	9718	9485	9485
10°	9651	9301	9266
15°	9560	9106	9028
20°	9423	8875	8776
25°	9239	8611	8502
30°	9019	8305	8160
35°	8727	7944	7776
40°	8386	7543	7373
45°	7963	7083	6929
50°	7459	6599	6500
55°	6956	6081	6066
60°	6398	5559	5687
65°	5838	5030	5367
70°	5226	4560	5112
75°	4644	4117	4920
80°	3866	3724	4792
85°	3050	3367	4759



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	3.1
10°-20°	497.1	8.8
20°-30°	744.8	13.2
30°-40°	875.1	15.5
40°-50°	872.0	15.4
50°-60°	751.9	13.3
60°-70°	568.3	10.1
70°-80°	372.2	6.6
80°-90°	197.9	3.5
90°-100°	127.6	2.3
100°-110°	125.0	2.2
110°-120°	112.4	2.0
120°-130°	91.0	1.6
130°-140°	63.4	1.1
140°-150°	38.4	0.7
150°-160°	20.7	0.4
160°-170°	10.9	0.2
170°-180°	3.3	0.1
0°-30°	1416.2	25.1
0°-40°	2291.3	40.6
0°-60°	3915.2	69.3
0°-90°	5053.6	89.5
90°-120°	365.1	6.5
90°-150°	557.9	9.9
90°-180°	593.0	10.5
0°-180°	5646.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1842	1842	1842	1842	1842	
5°	1844	1837	1824	1835	1832	175
15°	1769	1762	1755	1768	1760	498
25°	1615	1615	1613	1629	1624	743
35°	1389	1394	1399	1410	1408	868
45°	1104	1117	1131	1149	1149	852
55°	793	806	841	871	882	710
65°	501	519	567	624	647	498
75°	256	279	345	421	453	273
85°	69	103	176	260	290	74
90°	0	39	114	192	219	5
95°	4	44	121	194	217	5
105°	16	52	126	187	203	16
115°	27	55	119	172	187	27
125°	34	52	105	151	165	31
135°	34	43	80	119	133	27
145°	32	41	55	84	94	21
155°	36	39	41	48	60	16
165°	37	39	39	36	41	11
175°	39	39	36	28	20	4
180°	32	32	32	32	32	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1842.2	1842.2	1842.2	1842.2	1842.2
2.5°	1852.9	1844.0	1831.5	1840.4	1836.9
5°	1844.0	1836.9	1824.4	1835.1	1831.5
7.5°	1835.1	1826.2	1815.5	1826.2	1820.9
10°	1815.5	1808.4	1797.7	1812.0	1804.9
12.5°	1794.2	1788.8	1780.0	1792.4	1787.1
15°	1769.3	1762.2	1755.1	1767.5	1760.4
17.5°	1735.5	1731.9	1726.6	1740.8	1733.7
20°	1701.7	1696.4	1692.8	1708.8	1699.9
22.5°	1657.3	1657.3	1653.7	1669.7	1667.9
25°	1614.6	1614.6	1612.8	1628.8	1623.5
27.5°	1564.8	1564.8	1566.6	1577.2	1573.7
30°	1511.5	1511.5	1515.0	1527.5	1523.9
32.5°	1452.8	1456.3	1456.3	1468.8	1465.2
35°	1388.8	1394.1	1399.4	1410.1	1408.3
37.5°	1323.0	1328.3	1333.6	1347.9	1344.3
40°	1253.6	1260.7	1271.4	1285.6	1283.8
42.5°	1182.5	1187.8	1203.8	1216.3	1218.1
45°	1104.3	1116.7	1130.9	1148.7	1148.7
47.5°	1029.6	1040.2	1059.8	1079.4	1081.1
50°	946.0	963.8	986.9	1008.2	1015.3
52.5°	869.5	885.5	915.8	938.9	946.0
55°	793.1	805.5	841.1	871.3	882.0
57.5°	718.4	730.8	770.0	807.3	818.0
60°	641.9	659.7	700.6	745.1	759.3
62.5°	570.8	586.8	634.8	682.8	702.4
65°	501.4	519.2	567.2	624.1	647.3
67.5°	435.7	455.2	508.6	569.0	595.7
70°	369.9	391.2	449.9	517.5	545.9
72.5°	314.7	334.3	396.5	467.7	497.9
75°	256.1	279.2	345.0	421.4	453.4
77.5°	202.7	227.6	298.7	377.0	412.5
80°	151.1	183.2	254.3	336.1	368.1
82.5°	110.2	138.7	213.4	297.0	329.0
85°	69.3	103.1	176.0	259.6	289.8
87.5°	33.8	69.3	142.3	220.5	250.7
90°	0.0	39.1	113.8	192.0	218.7
92.5°	1.8	40.9	117.4	193.8	218.7
95°	3.6	44.5	120.9	193.8	216.9
97.5°	7.1	46.2	124.5	193.8	213.4
100°	10.7	48.0	126.3	192.0	209.8
102.5°	12.4	49.8	126.3	190.3	206.3
105°	16.0	51.6	126.3	186.7	202.7
107.5°	17.8	53.3	126.3	183.2	197.4
110°	21.3	53.3	124.5	179.6	193.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	24.9	55.1	122.7	176.0	190.3
115°	26.7	55.1	119.1	172.5	186.7
117.5°	30.2	55.1	117.4	167.1	183.2
120°	32.0	55.1	113.8	161.8	177.8
122.5°	33.8	53.3	108.5	156.5	172.5
125°	33.8	51.6	104.9	151.1	165.4
127.5°	35.6	49.8	99.6	142.3	158.3
130°	35.6	48.0	94.2	135.1	151.1
132.5°	35.6	44.5	87.1	128.0	142.3
135°	33.8	42.7	80.0	119.1	133.4
137.5°	33.8	42.7	72.9	110.2	122.7
140°	33.8	40.9	67.6	101.4	113.8
142.5°	33.8	40.9	60.5	92.5	103.1
145°	32.0	40.9	55.1	83.6	94.2
147.5°	32.0	40.9	49.8	74.7	83.6
150°	33.8	39.1	44.5	64.0	74.7
152.5°	33.8	39.1	40.9	56.9	67.6
155°	35.6	39.1	40.9	48.0	60.5
157.5°	35.6	39.1	39.1	42.7	53.3
160°	37.3	39.1	39.1	39.1	48.0
162.5°	37.3	39.1	39.1	37.3	44.5
165°	37.3	39.1	39.1	35.6	40.9
167.5°	39.1	39.1	37.3	33.8	39.1
170°	39.1	39.1	37.3	32.0	37.3
172.5°	39.1	39.1	37.3	30.2	32.0
175°	39.1	39.1	35.6	28.5	19.6
177.5°	39.1	39.1	35.6	28.5	14.2
180°	32.0	32.0	32.0	32.0	32.0

(END OF REPORT)