

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: P189049

Luminaire Tested: **RZL-WL-40L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189049  
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-40L840-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH LUMINOUS SIDES AND SNAP-ON FROSTED LINEAR PRISMATIC LENS  
Light Source: (112) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4461.2 lumens  
Efficiency: N/A  
Efficacy: 128.6 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

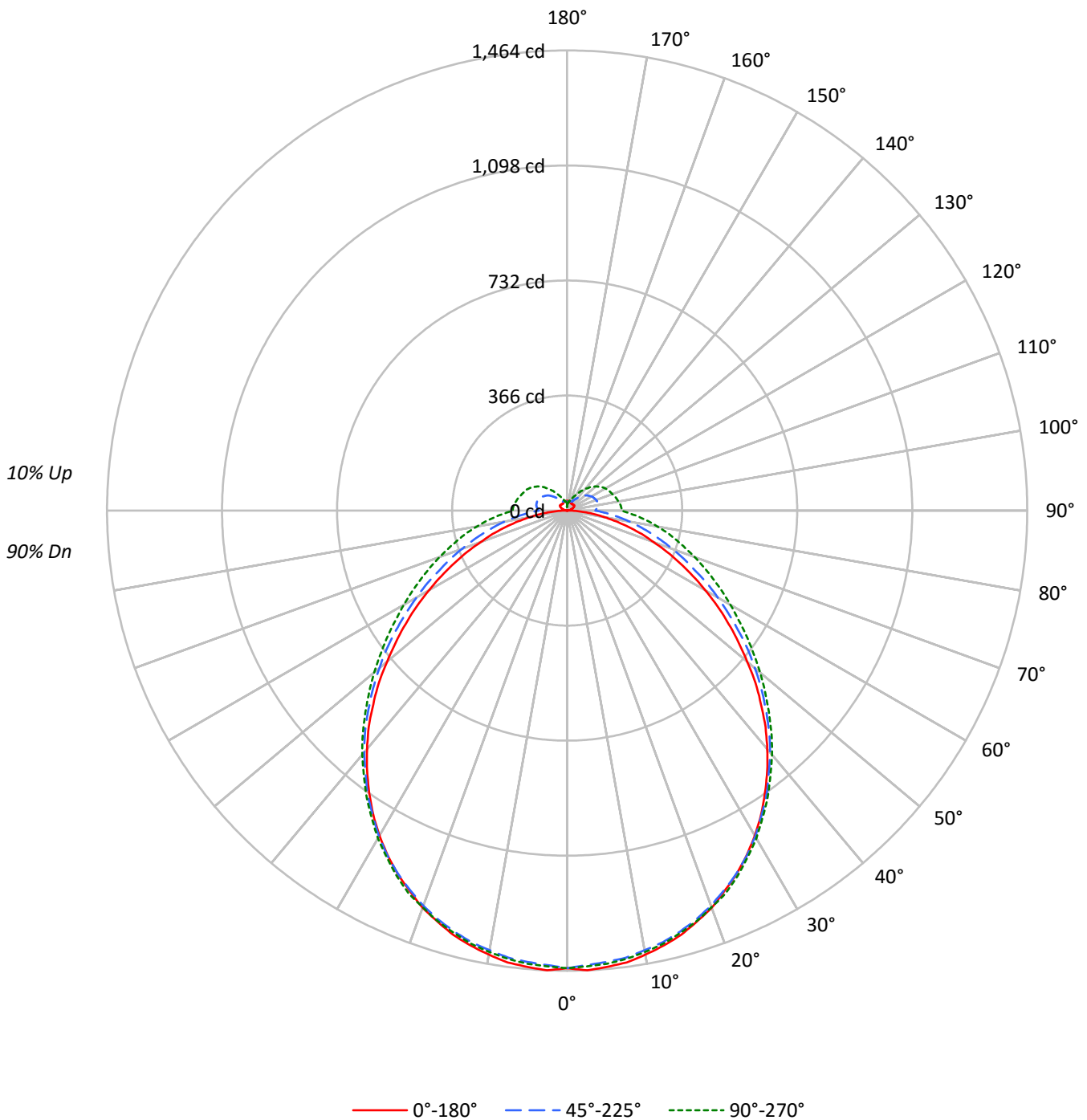
Input Watts (W): 34.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	7664	7664	7664
5°	7678	7495	7494
10°	7625	7349	7321
15°	7554	7195	7133
20°	7445	7012	6934
25°	7300	6804	6717
30°	7126	6562	6448
35°	6895	6277	6143
40°	6626	5960	5826
45°	6291	5597	5475
50°	5893	5214	5136
55°	5496	4805	4793
60°	5055	4393	4493
65°	4613	3975	4240
70°	4128	3603	4039
75°	3669	3253	3888
80°	3055	2942	3785
85°	2412	2661	3760



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.7	3.1
10°-20°	392.8	8.8
20°-30°	588.5	13.2
30°-40°	691.4	15.5
40°-50°	689.0	15.4
50°-60°	594.1	13.3
60°-70°	449.0	10.1
70°-80°	294.1	6.6
80°-90°	156.4	3.5
90°-100°	100.8	2.3
100°-110°	98.8	2.2
110°-120°	88.8	2.0
120°-130°	71.9	1.6
130°-140°	50.1	1.1
140°-150°	30.3	0.7
150°-160°	16.3	0.4
160°-170°	8.6	0.2
170°-180°	2.6	0.1
0°-30°	1119.0	25.1
0°-40°	1810.4	40.6
0°-60°	3093.5	69.3
0°-90°	3992.9	89.5
90°-120°	288.4	6.5
90°-150°	440.7	9.9
90°-180°	468.0	10.5
0°-180°	4461.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1457	1451	1442	1450	1447	138
15°	1398	1392	1387	1396	1391	394
25°	1276	1276	1274	1287	1283	587
35°	1097	1102	1106	1114	1113	686
45°	872	882	894	908	908	673
55°	627	636	665	688	697	561
65°	396	410	448	493	511	393
75°	202	221	273	333	358	215
85°	55	82	139	205	229	58
90°	0	31	90	152	173	4
95°	3	35	96	153	171	4
105°	13	41	100	148	160	13
115°	21	44	94	136	148	21
125°	27	41	83	119	131	24
135°	27	34	63	94	105	21
145°	25	32	44	66	74	16
155°	28	31	32	38	48	13
165°	30	31	31	28	32	8
175°	31	31	28	22	16	3
180°	25	25	25	25	25	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1455.6	1455.6	1455.6	1455.6	1455.6
2.5°	1464.0	1457.0	1447.1	1454.1	1451.3
5°	1457.0	1451.3	1441.5	1449.9	1447.1
7.5°	1449.9	1442.9	1434.5	1442.9	1438.7
10°	1434.5	1428.9	1420.4	1431.7	1426.0
12.5°	1417.6	1413.4	1406.4	1416.2	1412.0
15°	1397.9	1392.3	1386.7	1396.5	1390.9
17.5°	1371.3	1368.4	1364.2	1375.5	1369.8
20°	1344.6	1340.3	1337.5	1350.2	1343.2
22.5°	1309.4	1309.4	1306.6	1319.3	1317.9
25°	1275.7	1275.7	1274.3	1287.0	1282.7
27.5°	1236.4	1236.4	1237.8	1246.2	1243.4
30°	1194.2	1194.2	1197.0	1206.9	1204.1
32.5°	1147.9	1150.7	1150.7	1160.5	1157.7
35°	1097.3	1101.5	1105.7	1114.1	1112.7
37.5°	1045.3	1049.5	1053.7	1065.0	1062.2
40°	990.5	996.1	1004.6	1015.8	1014.4
42.5°	934.3	938.5	951.2	961.0	962.4
45°	872.5	882.3	893.6	907.6	907.6
47.5°	813.5	821.9	837.4	852.8	854.2
50°	747.4	761.5	779.8	796.6	802.2
52.5°	687.0	699.7	723.6	741.8	747.4
55°	626.6	636.5	664.6	688.4	696.9
57.5°	567.6	577.4	608.4	637.9	646.3
60°	507.2	521.2	553.6	588.7	599.9
62.5°	451.0	463.6	501.6	539.5	555.0
65°	396.2	410.3	448.2	493.1	511.4
67.5°	344.2	359.7	401.8	449.6	470.7
70°	292.2	309.1	355.5	408.8	431.3
72.5°	248.7	264.1	313.3	369.5	393.4
75°	202.3	220.6	272.6	333.0	358.3
77.5°	160.2	179.8	236.0	297.9	326.0
80°	119.4	144.7	200.9	265.5	290.8
82.5°	87.1	109.6	168.6	234.6	259.9
85°	54.8	81.5	139.1	205.1	229.0
87.5°	26.7	54.8	112.4	174.2	198.1
90°	0.0	30.9	89.9	151.7	172.8
92.5°	1.4	32.3	92.7	153.1	172.8
95°	2.8	35.1	95.5	153.1	171.4
97.5°	5.6	36.5	98.3	153.1	168.6
100°	8.4	37.9	99.8	151.7	165.8
102.5°	9.8	39.3	99.8	150.3	163.0
105°	12.6	40.7	99.8	147.5	160.2
107.5°	14.0	42.1	99.8	144.7	156.0
110°	16.9	42.1	98.3	141.9	153.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	19.7	43.6	96.9	139.1	150.3
115°	21.1	43.6	94.1	136.3	147.5
117.5°	23.9	43.6	92.7	132.1	144.7
120°	25.3	43.6	89.9	127.9	140.5
122.5°	26.7	42.1	85.7	123.6	136.3
125°	26.7	40.7	82.9	119.4	130.7
127.5°	28.1	39.3	78.7	112.4	125.0
130°	28.1	37.9	74.5	106.8	119.4
132.5°	28.1	35.1	68.8	101.2	112.4
135°	26.7	33.7	63.2	94.1	105.4
137.5°	26.7	33.7	57.6	87.1	96.9
140°	26.7	32.3	53.4	80.1	89.9
142.5°	26.7	32.3	47.8	73.1	81.5
145°	25.3	32.3	43.6	66.0	74.5
147.5°	25.3	32.3	39.3	59.0	66.0
150°	26.7	30.9	35.1	50.6	59.0
152.5°	26.7	30.9	32.3	45.0	53.4
155°	28.1	30.9	32.3	37.9	47.8
157.5°	28.1	30.9	30.9	33.7	42.1
160°	29.5	30.9	30.9	30.9	37.9
162.5°	29.5	30.9	30.9	29.5	35.1
165°	29.5	30.9	30.9	28.1	32.3
167.5°	30.9	30.9	29.5	26.7	30.9
170°	30.9	30.9	29.5	25.3	29.5
172.5°	30.9	30.9	29.5	23.9	25.3
175°	30.9	30.9	28.1	22.5	15.5
177.5°	30.9	30.9	28.1	22.5	11.2
180°	25.3	25.3	25.3	25.3	25.3

(END OF REPORT)