

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: P189035

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34813)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RZL-WB-50L840-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH LUMINOUS SIDES, SNAP-ON CLEAR LINEAR PRISMATIC LENS AND INTERNAL
BAFFLE
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5166.3 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.22 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.53' x L: 3.83' x H: 0.12')
CIE Type: Semi-Direct

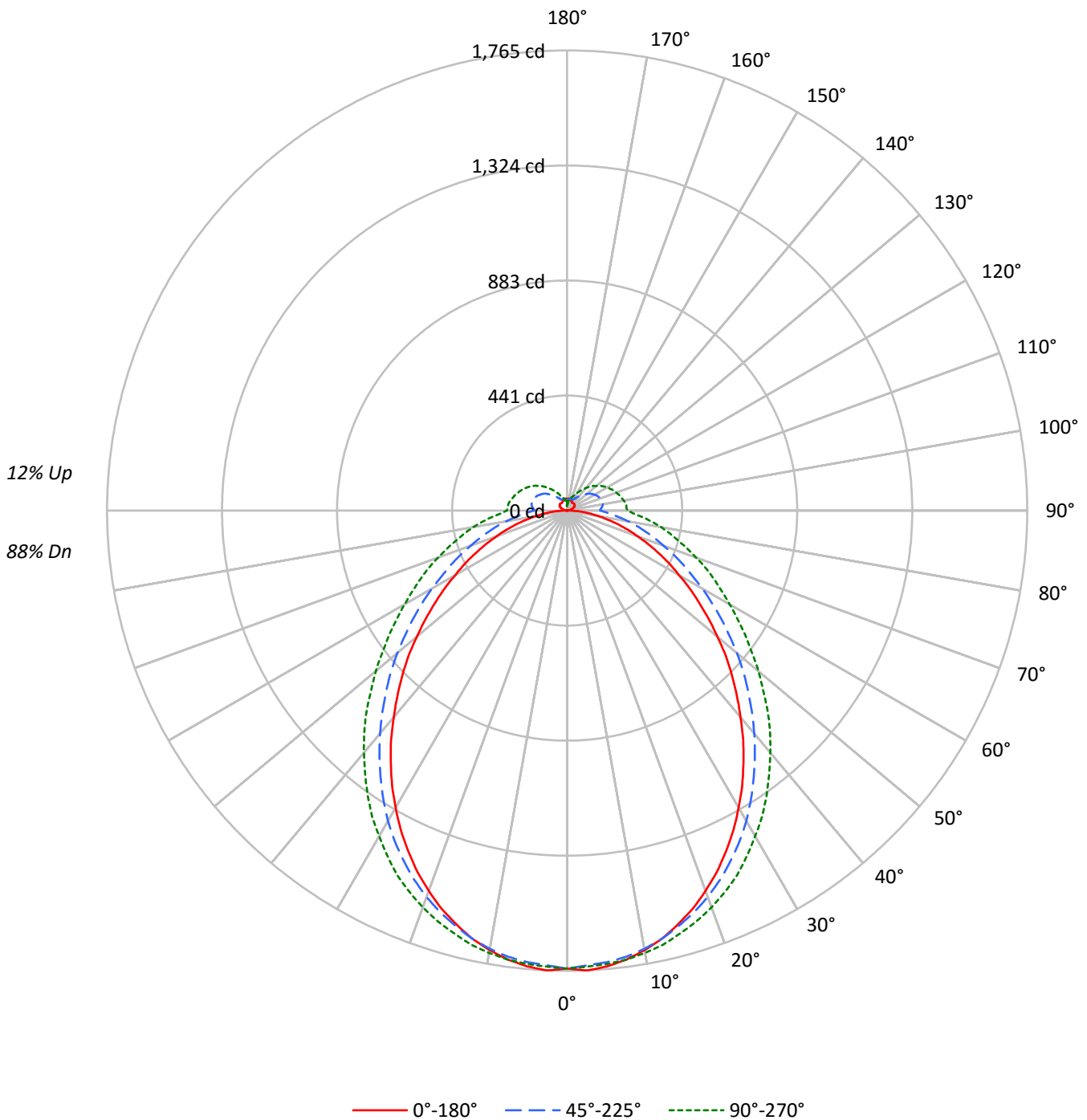
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	105	100	96	92	101	97	93	89	90	87	84	84	82	79	79	77	75	72
2	96	88	81	75	92	85	78	73	79	74	70	74	70	66	69	66	63	60
3	88	77	69	63	84	75	67	61	70	64	59	66	60	56	61	57	54	51
4	80	68	60	53	77	66	58	52	62	56	50	59	53	48	55	50	46	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	40	38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	34
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30
8	59	46	38	32	57	45	37	31	42	35	31	40	34	30	38	33	29	27
9	55	42	34	29	53	41	34	28	39	32	28	37	31	27	35	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9248	9248	9248
5°	9248	9040	9042
10°	9101	8831	8845
15°	8877	8560	8607
20°	8594	8268	8361
25°	8251	7917	8082
30°	7850	7534	7721
35°	7407	7085	7362
40°	6922	6624	6964
45°	6448	6147	6563
50°	5929	5682	6136
55°	5426	5206	5734
60°	4944	4754	5392
65°	4513	4351	5144
70°	4069	3983	4928
75°	3611	3713	4765
80°	3094	3488	4767
85°	2583	3332	4788



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	3.2
10°-20°	467.4	9.0
20°-30°	685.2	13.3
30°-40°	784.0	15.2
40°-50°	762.0	14.8
50°-60°	647.8	12.5
60°-70°	493.7	9.6
70°-80°	335.2	6.5
80°-90°	194.0	3.8
90°-100°	137.9	2.7
100°-110°	134.7	2.6
110°-120°	118.6	2.3
120°-130°	94.0	1.8
130°-140°	65.6	1.3
140°-150°	40.7	0.8
150°-160°	23.2	0.4
160°-170°	12.7	0.2
170°-180°	3.9	0.1
0°-30°	1318.3	25.5
0°-40°	2102.3	40.7
0°-60°	3512.2	68.0
0°-90°	4535.1	87.8
90°-120°	391.2	7.6
90°-150°	591.4	11.4
90°-180°	631.0	12.2
0°-180°	5166.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1756	1756	1756	1756	1756	
5°	1755	1749	1739	1749	1746	166
15°	1643	1646	1650	1676	1678	462
25°	1442	1452	1483	1529	1543	663
35°	1179	1200	1248	1312	1333	737
45°	894	919	981	1058	1088	689
55°	619	645	720	800	834	555
65°	388	411	491	583	620	385
75°	199	226	311	402	439	212
85°	59	94	174	260	292	60
90°	0	44	126	206	231	4
95°	4	48	133	210	228	5
105°	16	57	139	201	212	16
115°	28	60	130	181	190	27
125°	36	55	112	153	164	31
135°	37	46	85	121	132	29
145°	36	44	59	87	96	23
155°	39	44	46	55	66	18
165°	44	44	44	43	48	12
175°	46	46	43	34	27	4
180°	37	37	37	37	37	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1756.5	1756.5	1756.5	1756.5	1756.5
2.5°	1765.4	1758.3	1745.9	1754.8	1751.2
5°	1754.8	1749.4	1738.8	1749.4	1745.9
7.5°	1737.0	1733.4	1726.3	1738.8	1737.0
10°	1712.1	1710.3	1706.8	1724.5	1722.8
12.5°	1681.9	1681.9	1681.9	1703.2	1705.0
15°	1642.8	1646.3	1649.9	1676.5	1678.3
17.5°	1601.9	1607.2	1616.1	1648.1	1651.6
20°	1552.1	1559.2	1577.0	1614.3	1619.6
22.5°	1500.5	1509.4	1532.5	1573.4	1582.3
25°	1441.9	1452.5	1482.8	1529.0	1543.2
27.5°	1381.4	1395.6	1431.2	1479.2	1493.4
30°	1315.6	1333.4	1374.3	1425.9	1441.9
32.5°	1249.8	1269.4	1312.1	1369.0	1392.1
35°	1178.7	1200.1	1248.1	1312.1	1333.4
37.5°	1109.4	1132.5	1182.3	1251.6	1273.0
40°	1034.7	1064.9	1116.5	1187.6	1212.5
42.5°	963.6	992.1	1048.9	1123.6	1152.1
45°	894.3	919.2	981.4	1057.8	1088.1
47.5°	824.9	849.8	917.4	990.3	1018.7
50°	752.0	776.9	849.8	928.1	958.3
52.5°	684.5	709.4	782.3	860.5	892.5
55°	618.7	645.4	720.0	800.0	833.8
57.5°	558.3	581.4	657.8	741.4	775.2
60°	496.0	520.9	599.1	684.5	720.0
62.5°	442.7	464.0	540.5	631.1	668.5
65°	387.6	410.7	490.7	583.1	620.5
67.5°	336.0	360.9	440.9	535.1	574.3
70°	288.0	312.9	392.9	488.9	526.3
72.5°	243.6	270.2	350.2	444.5	481.8
75°	199.1	225.8	311.1	401.8	439.1
77.5°	158.2	190.2	273.8	366.2	401.8
80°	120.9	154.7	238.2	328.9	366.2
82.5°	87.1	122.7	204.5	295.1	327.1
85°	58.7	94.2	174.2	259.6	291.6
87.5°	28.4	67.6	147.6	229.3	254.2
90°	0.0	44.4	126.2	206.2	231.1
92.5°	1.8	46.2	128.0	208.0	227.6
95°	3.6	48.0	133.3	209.8	227.6
97.5°	7.1	51.6	136.9	209.8	225.8
100°	10.7	53.3	138.7	208.0	220.5
102.5°	12.4	55.1	138.7	206.2	215.1
105°	16.0	56.9	138.7	200.9	211.6
107.5°	17.8	58.7	138.7	197.3	206.2
110°	21.3	58.7	135.1	192.0	200.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	24.9	58.7	133.3	186.7	195.6
115°	28.4	60.4	129.8	181.3	190.2
117.5°	30.2	58.7	126.2	174.2	183.1
120°	33.8	58.7	120.9	167.1	177.8
122.5°	33.8	56.9	117.3	160.0	170.7
125°	35.6	55.1	112.0	152.9	163.6
127.5°	35.6	53.3	106.7	145.8	156.5
130°	37.3	49.8	99.6	136.9	147.6
132.5°	37.3	48.0	92.4	129.8	140.5
135°	37.3	46.2	85.3	120.9	131.6
137.5°	37.3	46.2	78.2	112.0	122.7
140°	37.3	44.4	71.1	104.9	113.8
142.5°	35.6	44.4	65.8	96.0	104.9
145°	35.6	44.4	58.7	87.1	96.0
147.5°	35.6	44.4	55.1	78.2	87.1
150°	37.3	44.4	49.8	69.3	80.0
152.5°	39.1	44.4	46.2	62.2	72.9
155°	39.1	44.4	46.2	55.1	65.8
157.5°	40.9	44.4	46.2	48.0	58.7
160°	40.9	44.4	46.2	44.4	55.1
162.5°	42.7	44.4	46.2	44.4	51.6
165°	44.4	44.4	44.4	42.7	48.0
167.5°	44.4	46.2	44.4	39.1	46.2
170°	46.2	46.2	44.4	37.3	42.7
172.5°	46.2	46.2	42.7	35.6	33.8
175°	46.2	46.2	42.7	33.8	26.7
177.5°	46.2	46.2	42.7	33.8	16.0
180°	37.3	37.3	37.3	37.3	37.3

(END OF REPORT)