

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: P189025

Luminaire Tested: **RZL-WB-50L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189025
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-50L830-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH LUMINOUS SIDES, SNAP-ON CLEAR LINEAR PRISMATIC LENS AND INTERNAL
BAFFLE
Light Source: (224) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4874.7 lumens
Efficiency: N/A
Efficacy: 119.2 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

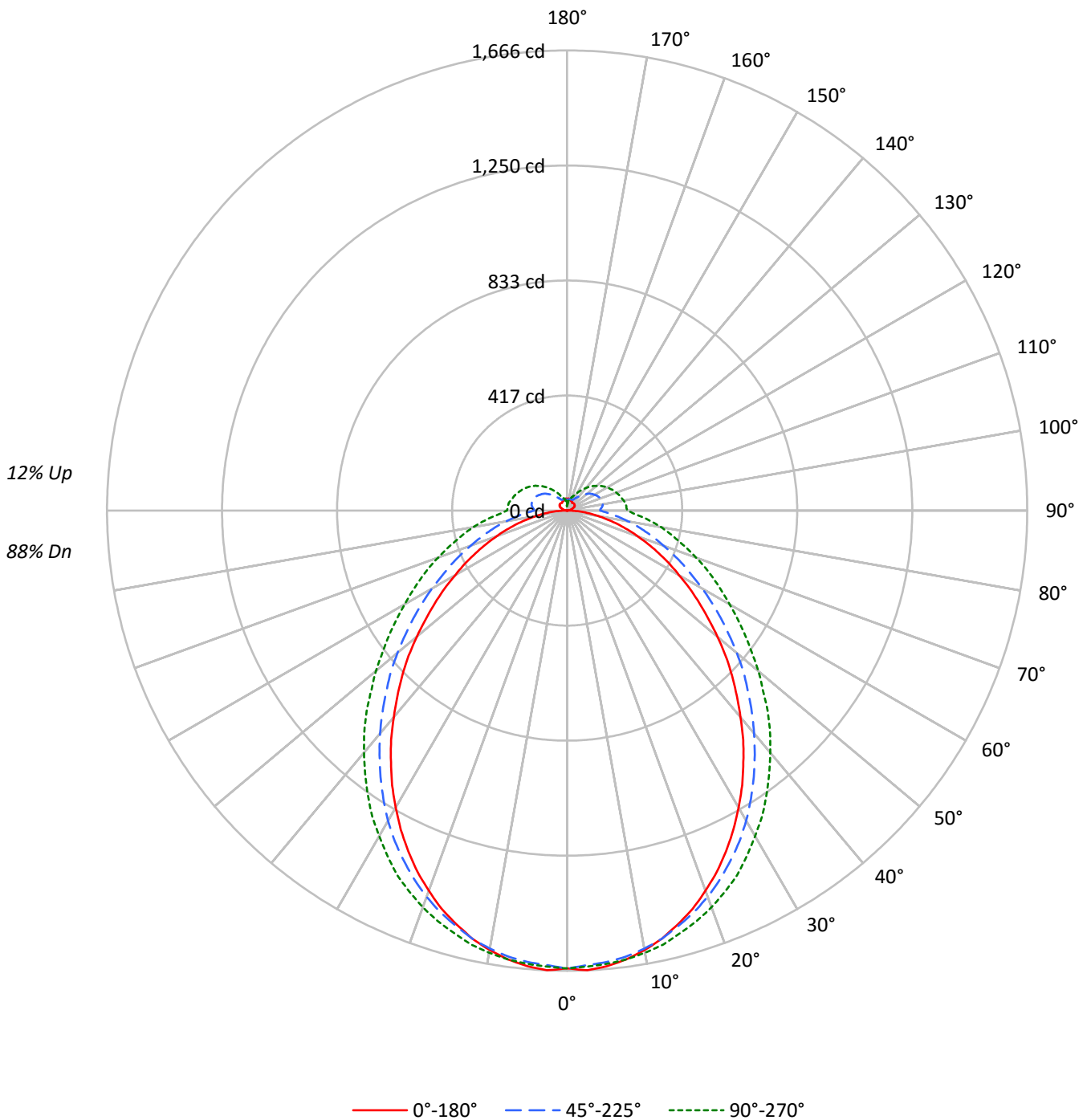
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8726	8726	8726
5°	8726	8530	8531
10°	8587	8332	8345
15°	8375	8077	8122
20°	8109	7801	7889
25°	7785	7470	7625
30°	7408	7108	7285
35°	6989	6685	6946
40°	6531	6250	6571
45°	6084	5800	6192
50°	5595	5362	5789
55°	5120	4912	5411
60°	4665	4486	5088
65°	4258	4106	4854
70°	3840	3757	4649
75°	3408	3504	4496
80°	2920	3292	4499
85°	2438	3145	4517



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	3.2
10°-20°	441.0	9.0
20°-30°	646.5	13.3
30°-40°	739.7	15.2
40°-50°	719.0	14.8
50°-60°	611.2	12.5
60°-70°	465.9	9.6
70°-80°	316.3	6.5
80°-90°	183.0	3.8
90°-100°	130.1	2.7
100°-110°	127.1	2.6
110°-120°	111.9	2.3
120°-130°	88.7	1.8
130°-140°	61.9	1.3
140°-150°	38.4	0.8
150°-160°	21.9	0.4
160°-170°	12.0	0.2
170°-180°	3.7	0.1
0°-30°	1243.9	25.5
0°-40°	1983.7	40.7
0°-60°	3313.9	68.0
0°-90°	4279.1	87.8
90°-120°	369.1	7.6
90°-150°	558.0	11.4
90°-180°	596.0	12.2
0°-180°	4874.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1657	1657	1657	1657	1657	
5°	1656	1651	1641	1651	1647	157
15°	1550	1553	1557	1582	1584	436
25°	1360	1370	1399	1443	1456	626
35°	1112	1132	1178	1238	1258	695
45°	844	867	926	998	1027	651
55°	584	609	679	755	787	524
65°	366	388	463	550	586	364
75°	188	213	294	379	414	200
85°	55	89	164	245	275	57
90°	0	42	119	195	218	4
95°	3	45	126	198	215	4
105°	15	54	131	190	200	15
115°	27	57	122	171	180	26
125°	34	52	106	144	154	30
135°	35	44	80	114	124	27
145°	34	42	55	82	91	21
155°	37	42	44	52	62	17
165°	42	42	42	40	45	12
175°	44	44	40	32	25	4
180°	35	35	35	35	35	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1657.4	1657.4	1657.4	1657.4	1657.4
2.5°	1665.8	1659.1	1647.3	1655.7	1652.4
5°	1655.7	1650.7	1640.6	1650.7	1647.3
7.5°	1638.9	1635.6	1628.9	1640.6	1638.9
10°	1615.5	1613.8	1610.4	1627.2	1625.5
12.5°	1586.9	1586.9	1586.9	1607.1	1608.8
15°	1550.0	1553.4	1556.7	1581.9	1583.6
17.5°	1511.5	1516.5	1524.9	1555.1	1558.4
20°	1464.5	1471.2	1488.0	1523.2	1528.2
22.5°	1415.8	1424.2	1446.0	1484.6	1493.0
25°	1360.5	1370.5	1399.1	1442.7	1456.1
27.5°	1303.4	1316.9	1350.4	1395.7	1409.1
30°	1241.4	1258.1	1296.7	1345.4	1360.5
32.5°	1179.3	1197.8	1238.0	1291.7	1313.5
35°	1112.2	1132.3	1177.6	1238.0	1258.1
37.5°	1046.8	1068.6	1115.6	1181.0	1201.1
40°	976.3	1004.8	1053.5	1120.6	1144.1
42.5°	909.2	936.1	989.7	1060.2	1087.0
45°	843.8	867.3	926.0	998.1	1026.6
47.5°	778.4	801.9	865.6	934.4	961.2
50°	709.6	733.1	801.9	875.7	904.2
52.5°	645.8	669.3	738.1	811.9	842.1
55°	583.8	608.9	679.4	754.9	786.8
57.5°	526.7	548.6	620.7	699.5	731.4
60°	468.0	491.5	565.3	645.8	679.4
62.5°	417.7	437.8	510.0	595.5	630.8
65°	365.7	387.5	463.0	550.2	585.5
67.5°	317.1	340.5	416.0	504.9	541.8
70°	271.8	295.2	370.7	461.3	496.5
72.5°	229.8	255.0	330.5	419.4	454.6
75°	187.9	213.0	293.6	379.1	414.3
77.5°	149.3	179.5	258.3	345.6	379.1
80°	114.1	145.9	224.8	310.3	345.6
82.5°	82.2	115.7	192.9	278.5	308.7
85°	55.4	88.9	164.4	244.9	275.1
87.5°	26.8	63.7	139.2	216.4	239.9
90°	0.0	41.9	119.1	194.6	218.1
92.5°	1.7	43.6	120.8	196.3	214.7
95°	3.4	45.3	125.8	197.9	214.7
97.5°	6.7	48.6	129.2	197.9	213.0
100°	10.1	50.3	130.8	196.3	208.0
102.5°	11.7	52.0	130.8	194.6	203.0
105°	15.1	53.7	130.8	189.6	199.6
107.5°	16.8	55.4	130.8	186.2	194.6
110°	20.1	55.4	127.5	181.2	189.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	23.5	55.4	125.8	176.1	184.5
115°	26.8	57.0	122.5	171.1	179.5
117.5°	28.5	55.4	119.1	164.4	172.8
120°	31.9	55.4	114.1	157.7	167.8
122.5°	31.9	53.7	110.7	151.0	161.0
125°	33.6	52.0	105.7	144.3	154.3
127.5°	33.6	50.3	100.7	137.6	147.6
130°	35.2	47.0	93.9	129.2	139.2
132.5°	35.2	45.3	87.2	122.5	132.5
135°	35.2	43.6	80.5	114.1	124.1
137.5°	35.2	43.6	73.8	105.7	115.7
140°	35.2	41.9	67.1	99.0	107.4
142.5°	33.6	41.9	62.1	90.6	99.0
145°	33.6	41.9	55.4	82.2	90.6
147.5°	33.6	41.9	52.0	73.8	82.2
150°	35.2	41.9	47.0	65.4	75.5
152.5°	36.9	41.9	43.6	58.7	68.8
155°	36.9	41.9	43.6	52.0	62.1
157.5°	38.6	41.9	43.6	45.3	55.4
160°	38.6	41.9	43.6	41.9	52.0
162.5°	40.3	41.9	43.6	41.9	48.6
165°	41.9	41.9	41.9	40.3	45.3
167.5°	41.9	43.6	41.9	36.9	43.6
170°	43.6	43.6	41.9	35.2	40.3
172.5°	43.6	43.6	40.3	33.6	31.9
175°	43.6	43.6	40.3	31.9	25.2
177.5°	43.6	43.6	40.3	31.9	15.1
180°	35.2	35.2	35.2	35.2	35.2

(END OF REPORT)