

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: P189030

Luminaire Tested: **RZL-WB-50L835-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189030
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-50L835-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH LUMINOUS SIDES, SNAP-ON CLEAR LINEAR PRISMATIC LENS AND INTERNAL
BAFFLE
Light Source: (224) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5043.4 lumens
Efficiency: N/A
Efficacy: 123.3 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

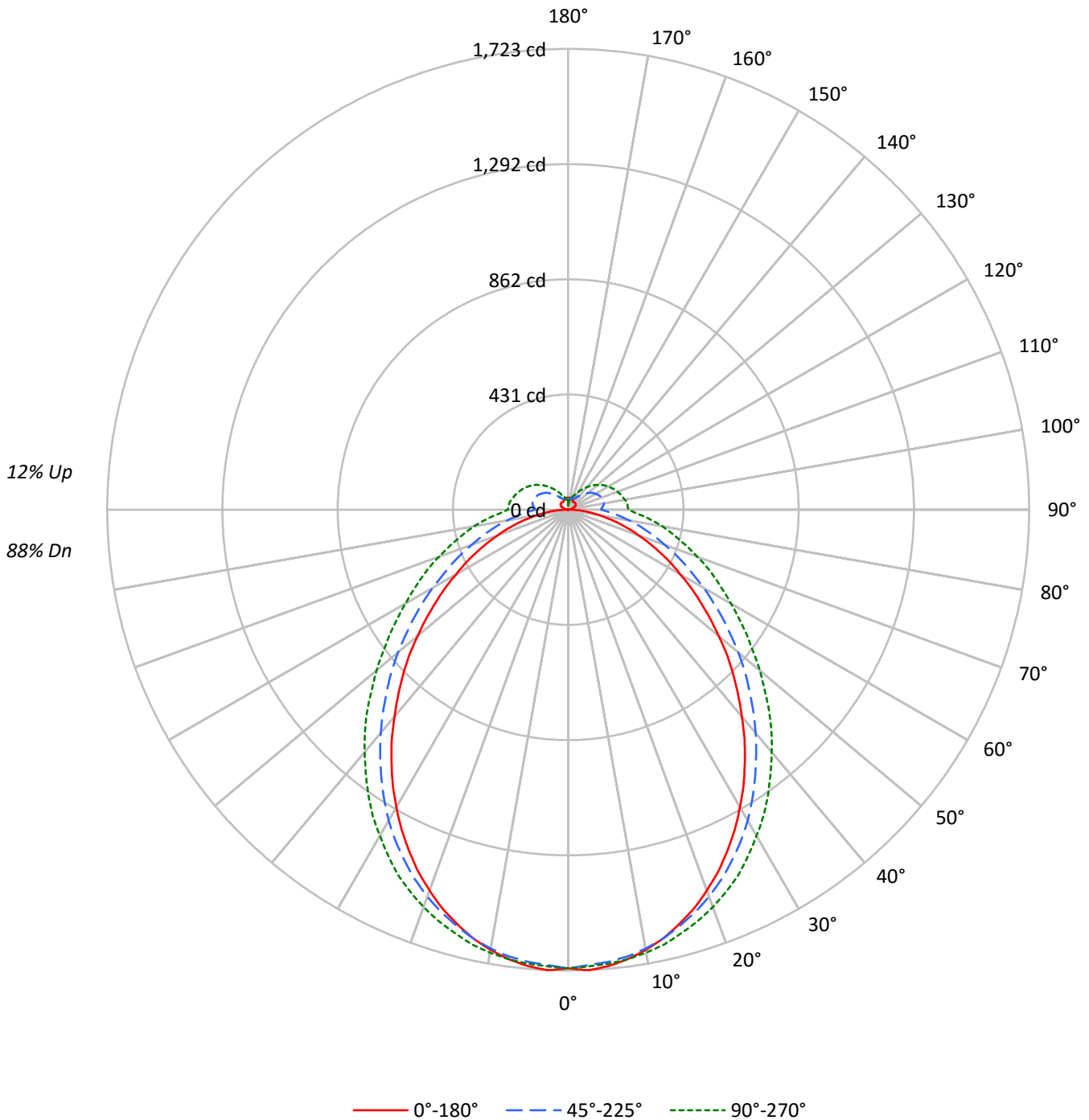
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	9028	9028	9028
5°	9028	8825	8826
10°	8884	8620	8634
15°	8666	8356	8403
20°	8389	8070	8162
25°	8054	7729	7889
30°	7664	7355	7537
35°	7231	6917	7187
40°	6757	6466	6798
45°	6295	6000	6407
50°	5788	5547	5990
55°	5298	5082	5598
60°	4826	4641	5264
65°	4406	4248	5022
70°	3973	3888	4810
75°	3525	3624	4652
80°	3019	3406	4654
85°	2522	3254	4673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	3.2
10°-20°	456.3	9.0
20°-30°	668.9	13.3
30°-40°	765.3	15.2
40°-50°	743.9	14.7
50°-60°	632.4	12.5
60°-70°	482.0	9.6
70°-80°	327.3	6.5
80°-90°	189.4	3.8
90°-100°	134.6	2.7
100°-110°	131.5	2.6
110°-120°	115.8	2.3
120°-130°	91.7	1.8
130°-140°	64.0	1.3
140°-150°	39.7	0.8
150°-160°	22.7	0.4
160°-170°	12.4	0.2
170°-180°	3.8	0.1
0°-30°	1287.0	25.5
0°-40°	2052.3	40.7
0°-60°	3428.6	68.0
0°-90°	4427.2	87.8
90°-120°	381.9	7.6
90°-150°	577.3	11.4
90°-180°	616.0	12.2
0°-180°	5043.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1713	1708	1697	1708	1704	162
15°	1604	1607	1611	1637	1638	451
25°	1408	1418	1448	1493	1506	647
35°	1151	1172	1218	1281	1302	719
45°	873	897	958	1033	1062	673
55°	604	630	703	781	814	542
65°	378	401	479	569	606	376
75°	194	220	304	392	429	207
85°	57	92	170	253	285	59
90°	0	43	123	201	226	4
95°	4	47	130	205	222	4
105°	16	56	135	196	206	16
115°	28	59	127	177	186	27
125°	35	54	109	149	160	31
135°	36	45	83	118	128	28
145°	35	43	57	85	94	22
155°	38	43	45	54	64	18
165°	43	43	43	42	47	12
175°	45	45	42	33	26	4
180°	36	36	36	36	36	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1714.7	1714.7	1714.7	1714.7	1714.7
2.5°	1723.4	1716.5	1704.3	1713.0	1709.5
5°	1713.0	1707.8	1697.4	1707.8	1704.3
7.5°	1695.6	1692.2	1685.2	1697.4	1695.6
10°	1671.3	1669.6	1666.1	1683.5	1681.8
12.5°	1641.8	1641.8	1641.8	1662.7	1664.4
15°	1603.7	1607.1	1610.6	1636.6	1638.4
17.5°	1563.7	1568.9	1577.6	1608.9	1612.3
20°	1515.1	1522.1	1539.4	1575.9	1581.1
22.5°	1464.8	1473.5	1496.1	1536.0	1544.7
25°	1407.5	1418.0	1447.5	1492.6	1506.5
27.5°	1348.5	1362.4	1397.1	1444.0	1457.9
30°	1284.3	1301.7	1341.6	1391.9	1407.5
32.5°	1220.1	1239.2	1280.8	1336.4	1358.9
35°	1150.7	1171.5	1218.4	1280.8	1301.7
37.5°	1083.0	1105.6	1154.1	1221.8	1242.7
40°	1010.1	1039.6	1089.9	1159.4	1183.7
42.5°	940.7	968.4	1024.0	1096.9	1124.6
45°	873.0	897.3	958.0	1032.7	1062.2
47.5°	805.3	829.6	895.6	966.7	994.5
50°	734.1	758.4	829.6	906.0	935.5
52.5°	668.2	692.5	763.6	840.0	871.3
55°	604.0	630.0	702.9	781.0	814.0
57.5°	545.0	567.5	642.2	723.7	756.7
60°	484.2	508.5	584.9	668.2	702.9
62.5°	432.2	453.0	527.6	616.1	652.6
65°	378.4	400.9	479.0	569.3	605.7
67.5°	328.0	352.3	430.4	522.4	560.6
70°	281.2	305.5	383.6	477.3	513.7
72.5°	237.8	263.8	341.9	433.9	470.3
75°	194.4	220.4	303.7	392.2	428.7
77.5°	154.5	185.7	267.3	357.5	392.2
80°	118.0	151.0	232.6	321.1	357.5
82.5°	85.0	119.8	199.6	288.1	319.3
85°	57.3	92.0	170.1	253.4	284.6
87.5°	27.8	66.0	144.1	223.9	248.2
90°	0.0	43.4	123.2	201.3	225.6
92.5°	1.7	45.1	125.0	203.1	222.2
95°	3.5	46.9	130.2	204.8	222.2
97.5°	6.9	50.3	133.6	204.8	220.4
100°	10.4	52.1	135.4	203.1	215.2
102.5°	12.1	53.8	135.4	201.3	210.0
105°	15.6	55.5	135.4	196.1	206.5
107.5°	17.4	57.3	135.4	192.6	201.3
110°	20.8	57.3	131.9	187.4	196.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	24.3	57.3	130.2	182.2	190.9
115°	27.8	59.0	126.7	177.0	185.7
117.5°	29.5	57.3	123.2	170.1	178.8
120°	33.0	57.3	118.0	163.1	173.6
122.5°	33.0	55.5	114.5	156.2	166.6
125°	34.7	53.8	109.3	149.3	159.7
127.5°	34.7	52.1	104.1	142.3	152.7
130°	36.4	48.6	97.2	133.6	144.1
132.5°	36.4	46.9	90.2	126.7	137.1
135°	36.4	45.1	83.3	118.0	128.4
137.5°	36.4	45.1	76.4	109.3	119.8
140°	36.4	43.4	69.4	102.4	111.1
142.5°	34.7	43.4	64.2	93.7	102.4
145°	34.7	43.4	57.3	85.0	93.7
147.5°	34.7	43.4	53.8	76.4	85.0
150°	36.4	43.4	48.6	67.7	78.1
152.5°	38.2	43.4	45.1	60.7	71.2
155°	38.2	43.4	45.1	53.8	64.2
157.5°	39.9	43.4	45.1	46.9	57.3
160°	39.9	43.4	45.1	43.4	53.8
162.5°	41.7	43.4	45.1	43.4	50.3
165°	43.4	43.4	43.4	41.7	46.9
167.5°	43.4	45.1	43.4	38.2	45.1
170°	45.1	45.1	43.4	36.4	41.7
172.5°	45.1	45.1	41.7	34.7	33.0
175°	45.1	45.1	41.7	33.0	26.0
177.5°	45.1	45.1	41.7	33.0	15.6
180°	36.4	36.4	36.4	36.4	36.4

(END OF REPORT)