

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: P189045

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189045
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-50L835-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH LUMINOUS SIDES AND SNAP-ON FROSTED LINEAR PRISMATIC LENS
Light Source: (224) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5512.0 lumens
Efficiency: N/A
Efficacy: 134.8 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

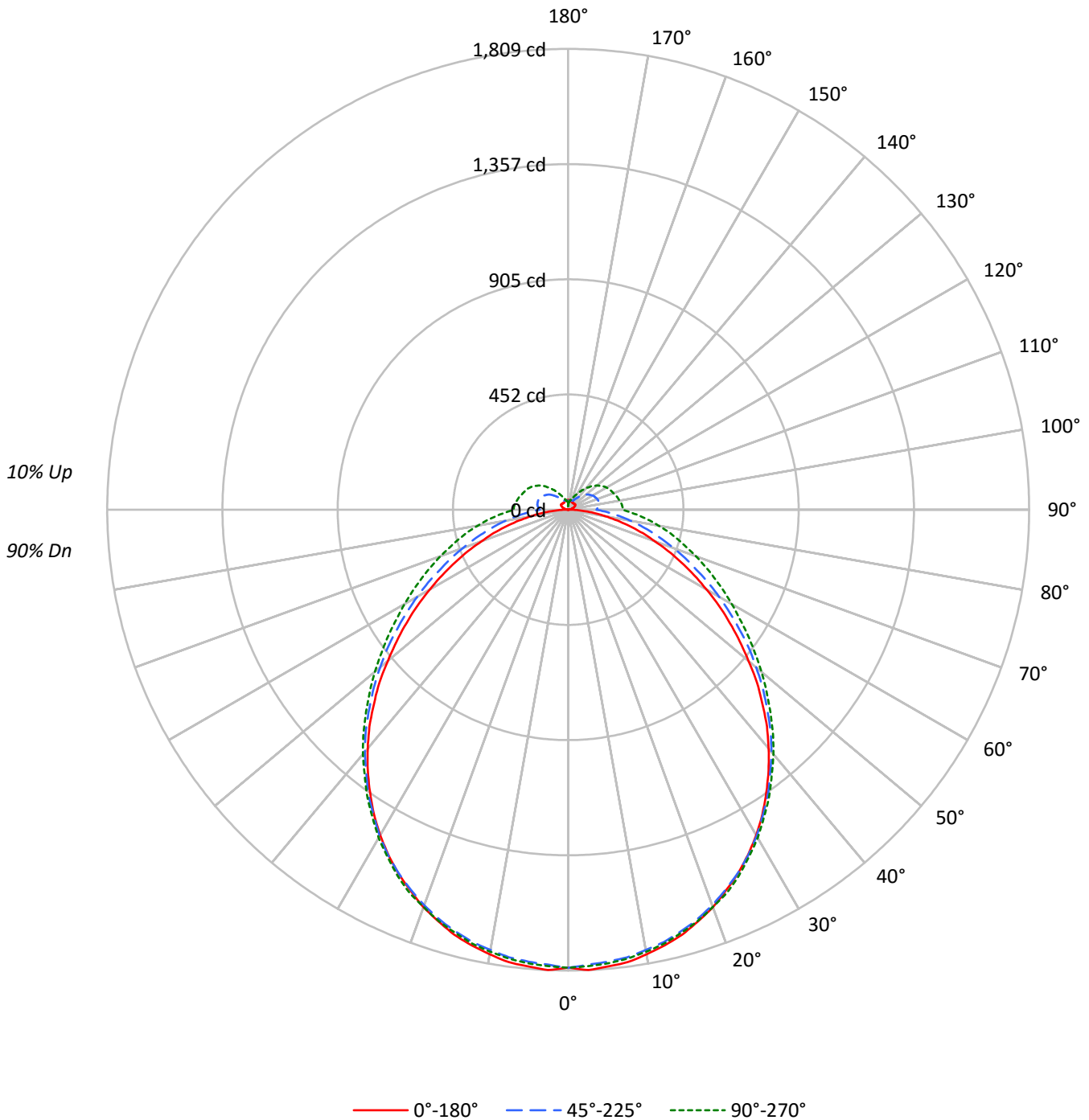
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9468	9468	9468
5°	9487	9260	9259
10°	9421	9080	9046
15°	9333	8889	8814
20°	9198	8663	8567
25°	9019	8406	8299
30°	8804	8108	7966
35°	8519	7755	7591
40°	8187	7364	7198
45°	7773	6915	6764
50°	7281	6442	6346
55°	6790	5936	5921
60°	6245	5427	5551
65°	5700	4910	5239
70°	5102	4452	4990
75°	4534	4019	4803
80°	3774	3634	4677
85°	2979	3286	4645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	3.1
10°-20°	485.3	8.8
20°-30°	727.1	13.2
30°-40°	854.3	15.5
40°-50°	851.3	15.4
50°-60°	734.0	13.3
60°-70°	554.8	10.1
70°-80°	363.3	6.6
80°-90°	193.2	3.5
90°-100°	124.6	2.3
100°-110°	122.0	2.2
110°-120°	109.8	2.0
120°-130°	88.8	1.6
130°-140°	61.9	1.1
140°-150°	37.4	0.7
150°-160°	20.2	0.4
160°-170°	10.6	0.2
170°-180°	3.2	0.1
0°-30°	1382.5	25.1
0°-40°	2236.7	40.6
0°-60°	3822.0	69.3
0°-90°	4933.3	89.5
90°-120°	356.4	6.5
90°-150°	544.6	9.9
90°-180°	579.0	10.5
0°-180°	5512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1798	1798	1798	1798	1798	
5°	1800	1793	1781	1791	1788	171
15°	1727	1720	1713	1725	1718	487
25°	1576	1576	1574	1590	1585	725
35°	1356	1361	1366	1376	1375	847
45°	1078	1090	1104	1121	1121	832
55°	774	786	821	851	861	693
65°	490	507	554	609	632	486
75°	250	272	337	411	443	266
85°	68	101	172	253	283	72
90°	0	38	111	188	214	5
95°	4	43	118	189	212	4
105°	16	50	123	182	198	16
115°	26	54	116	168	182	26
125°	33	50	102	148	161	30
135°	33	42	78	116	130	26
145°	31	40	54	82	92	20
155°	35	38	40	47	59	16
165°	36	38	38	35	40	10
175°	38	38	35	28	19	4
180°	31	31	31	31	31	



TEST NUMBER: P189045

CATALOG NUMBER: RZL-WL-50L835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1798.3	1798.3	1798.3	1798.3	1798.3
2.5°	1808.8	1800.1	1787.9	1796.6	1793.1
5°	1800.1	1793.1	1781.0	1791.4	1787.9
7.5°	1791.4	1782.7	1772.3	1782.7	1777.5
10°	1772.3	1765.4	1755.0	1768.8	1761.9
12.5°	1751.5	1746.3	1737.6	1749.7	1744.5
15°	1727.2	1720.2	1713.3	1725.4	1718.5
17.5°	1694.2	1690.7	1685.5	1699.4	1692.5
20°	1661.2	1656.0	1652.5	1668.2	1659.5
22.5°	1617.8	1617.8	1614.3	1630.0	1628.2
25°	1576.2	1576.2	1574.4	1590.0	1584.8
27.5°	1527.6	1527.6	1529.3	1539.7	1536.2
30°	1475.5	1475.5	1479.0	1491.1	1487.6
32.5°	1418.2	1421.7	1421.7	1433.8	1430.3
35°	1355.7	1360.9	1366.1	1376.5	1374.8
37.5°	1291.5	1296.7	1301.9	1315.8	1312.3
40°	1223.8	1230.7	1241.1	1255.0	1253.3
42.5°	1154.3	1159.6	1175.2	1187.3	1189.1
45°	1078.0	1090.1	1104.0	1121.4	1121.4
47.5°	1005.1	1015.5	1034.6	1053.7	1055.4
50°	923.5	940.8	963.4	984.2	991.2
52.5°	848.8	864.5	894.0	916.5	923.5
55°	774.2	786.3	821.1	850.6	861.0
57.5°	701.3	713.4	751.6	788.1	798.5
60°	626.6	644.0	683.9	727.3	741.2
62.5°	557.2	572.8	619.7	666.6	685.7
65°	489.5	506.9	553.7	609.3	631.9
67.5°	425.3	444.4	496.5	555.5	581.5
70°	361.1	381.9	439.2	505.1	532.9
72.5°	307.2	326.3	387.1	456.5	486.0
75°	250.0	272.5	336.8	411.4	442.6
77.5°	197.9	222.2	291.6	368.0	402.7
80°	147.5	178.8	248.2	328.1	359.3
82.5°	107.6	135.4	208.3	289.9	321.1
85°	67.7	100.7	171.8	253.4	282.9
87.5°	33.0	67.7	138.9	215.2	244.8
90°	0.0	38.2	111.1	187.5	213.5
92.5°	1.7	39.9	114.6	189.2	213.5
95°	3.5	43.4	118.0	189.2	211.8
97.5°	6.9	45.1	121.5	189.2	208.3
100°	10.4	46.9	123.2	187.5	204.8
102.5°	12.2	48.6	123.2	185.7	201.4
105°	15.6	50.3	123.2	182.3	197.9
107.5°	17.4	52.1	123.2	178.8	192.7
110°	20.8	52.1	121.5	175.3	189.2



TEST NUMBER: P189045

CATALOG NUMBER: RZL-WL-50L835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	24.3	53.8	119.8	171.8	185.7
115°	26.0	53.8	116.3	168.4	182.3
117.5°	29.5	53.8	114.6	163.2	178.8
120°	31.2	53.8	111.1	158.0	173.6
122.5°	33.0	52.1	105.9	152.8	168.4
125°	33.0	50.3	102.4	147.5	161.4
127.5°	34.7	48.6	97.2	138.9	154.5
130°	34.7	46.9	92.0	131.9	147.5
132.5°	34.7	43.4	85.1	125.0	138.9
135°	33.0	41.7	78.1	116.3	130.2
137.5°	33.0	41.7	71.2	107.6	119.8
140°	33.0	39.9	66.0	98.9	111.1
142.5°	33.0	39.9	59.0	90.3	100.7
145°	31.2	39.9	53.8	81.6	92.0
147.5°	31.2	39.9	48.6	72.9	81.6
150°	33.0	38.2	43.4	62.5	72.9
152.5°	33.0	38.2	39.9	55.5	66.0
155°	34.7	38.2	39.9	46.9	59.0
157.5°	34.7	38.2	38.2	41.7	52.1
160°	36.5	38.2	38.2	38.2	46.9
162.5°	36.5	38.2	38.2	36.5	43.4
165°	36.5	38.2	38.2	34.7	39.9
167.5°	38.2	38.2	36.5	33.0	38.2
170°	38.2	38.2	36.5	31.2	36.5
172.5°	38.2	38.2	36.5	29.5	31.2
175°	38.2	38.2	34.7	27.8	19.1
177.5°	38.2	38.2	34.7	27.8	13.9
180°	31.2	31.2	31.2	31.2	31.2

(END OF REPORT)