

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: P189040

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189040
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-50L830-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH LUMINOUS SIDES AND SNAP-ON FROSTED LINEAR PRISMATIC LENS
Light Source: (224) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5327.6 lumens
Efficiency: N/A
Efficacy: 130.3 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

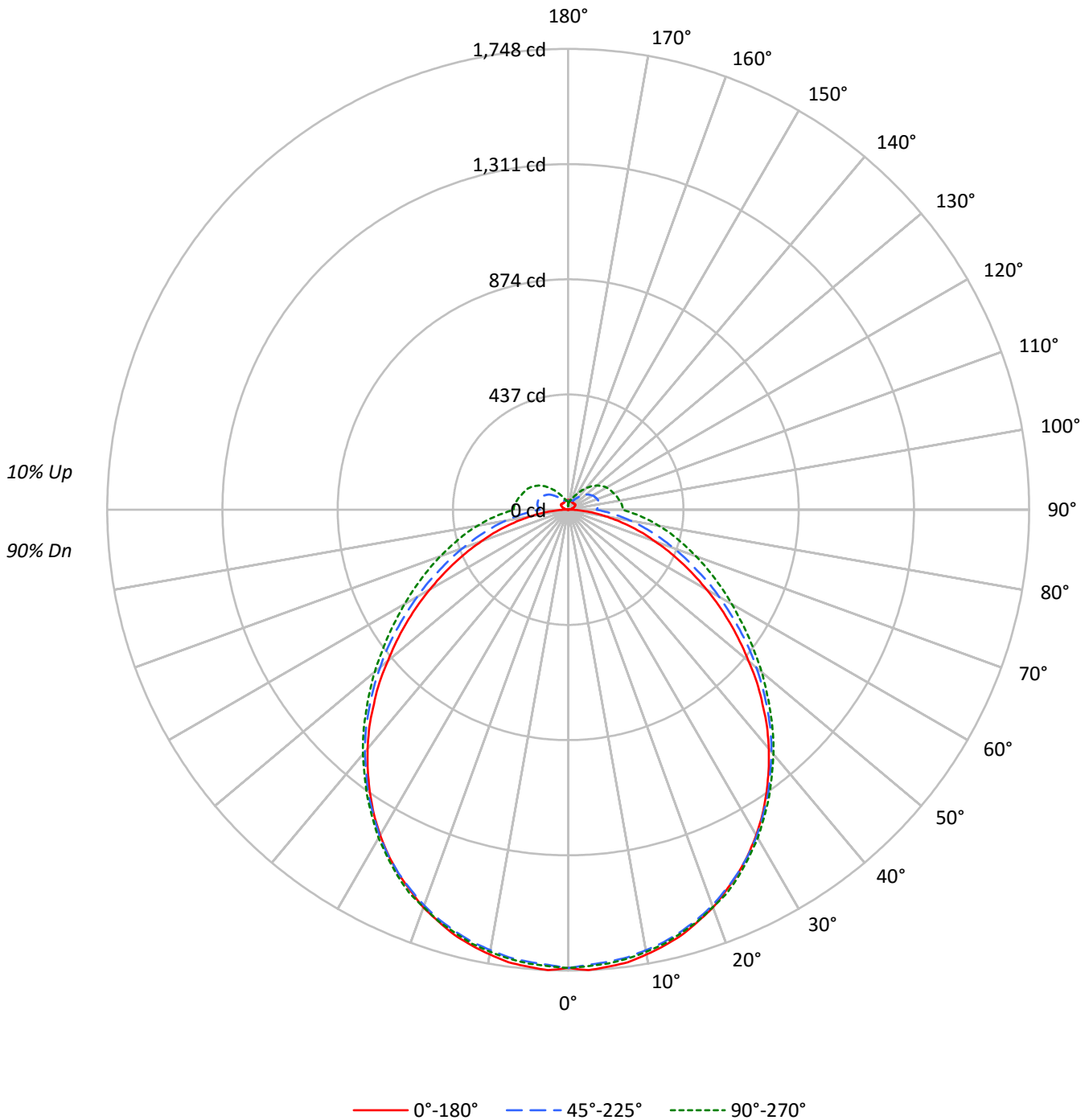
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9152	9152	9152
5°	9169	8950	8950
10°	9106	8777	8743
15°	9021	8592	8519
20°	8891	8374	8281
25°	8718	8125	8022
30°	8510	7836	7700
35°	8234	7496	7337
40°	7913	7117	6958
45°	7513	6684	6538
50°	7038	6226	6134
55°	6563	5738	5723
60°	6037	5246	5366
65°	5509	4746	5063
70°	4931	4303	4823
75°	4381	3885	4642
80°	3649	3513	4521
85°	2878	3177	4491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	3.1
10°-20°	469.1	8.8
20°-30°	702.8	13.2
30°-40°	825.7	15.5
40°-50°	822.8	15.4
50°-60°	709.4	13.3
60°-70°	536.2	10.1
70°-80°	351.2	6.6
80°-90°	186.7	3.5
90°-100°	120.4	2.3
100°-110°	118.0	2.2
110°-120°	106.1	2.0
120°-130°	85.9	1.6
130°-140°	59.8	1.1
140°-150°	36.2	0.7
150°-160°	19.5	0.4
160°-170°	10.3	0.2
170°-180°	3.1	0.1
0°-30°	1336.3	25.1
0°-40°	2162.0	40.6
0°-60°	3694.2	69.3
0°-90°	4768.4	89.5
90°-120°	344.5	6.5
90°-150°	526.4	9.9
90°-180°	559.0	10.5
0°-180°	5327.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1738	1738	1738	1738	1738	
5°	1740	1733	1721	1732	1728	165
15°	1669	1663	1656	1668	1661	470
25°	1524	1524	1522	1537	1532	701
35°	1310	1315	1320	1330	1329	819
45°	1042	1054	1067	1084	1084	804
55°	748	760	794	822	832	669
65°	473	490	535	589	611	470
75°	242	263	326	398	428	257
85°	65	97	166	245	274	70
90°	0	37	107	181	206	5
95°	3	42	114	183	205	4
105°	15	49	119	176	191	15
115°	25	52	112	163	176	25
125°	32	49	99	143	156	29
135°	32	40	76	112	126	25
145°	30	39	52	79	89	20
155°	34	37	39	45	57	15
165°	35	37	37	34	39	10
175°	37	37	34	27	18	4
180°	30	30	30	30	30	



TEST NUMBER: P189040

CATALOG NUMBER: RZL-WL-50L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1738.2	1738.2	1738.2	1738.2	1738.2
2.5°	1748.3	1739.9	1728.1	1736.5	1733.2
5°	1739.9	1733.2	1721.4	1731.5	1728.1
7.5°	1731.5	1723.1	1713.0	1723.1	1718.1
10°	1713.0	1706.3	1696.3	1709.7	1703.0
12.5°	1692.9	1687.9	1679.5	1691.2	1686.2
15°	1669.4	1662.7	1656.0	1667.7	1661.0
17.5°	1637.5	1634.2	1629.2	1642.6	1635.9
20°	1605.7	1600.6	1597.3	1612.4	1604.0
22.5°	1563.7	1563.7	1560.4	1575.5	1573.8
25°	1523.5	1523.5	1521.8	1536.9	1531.8
27.5°	1476.5	1476.5	1478.2	1488.2	1484.9
30°	1426.1	1426.1	1429.5	1441.2	1437.9
32.5°	1370.8	1374.1	1374.1	1385.9	1382.5
35°	1310.4	1315.4	1320.4	1330.5	1328.8
37.5°	1248.3	1253.3	1258.4	1271.8	1268.4
40°	1182.9	1189.6	1199.6	1213.1	1211.4
42.5°	1115.7	1120.8	1135.9	1147.6	1149.3
45°	1041.9	1053.7	1067.1	1083.9	1083.9
47.5°	971.5	981.5	1000.0	1018.4	1020.1
50°	892.6	909.4	931.2	951.3	958.0
52.5°	820.5	835.6	864.1	885.9	892.6
55°	748.3	760.0	793.6	822.1	832.2
57.5°	677.8	689.6	726.5	761.7	771.8
60°	605.7	622.5	661.1	703.0	716.4
62.5°	538.6	553.7	599.0	644.3	662.7
65°	473.1	489.9	535.2	588.9	610.7
67.5°	411.1	429.5	479.9	536.9	562.1
70°	349.0	369.1	424.5	488.2	515.1
72.5°	297.0	315.4	374.2	441.3	469.8
75°	241.6	263.4	325.5	397.6	427.8
77.5°	191.3	214.8	281.9	355.7	389.3
80°	142.6	172.8	239.9	317.1	347.3
82.5°	104.0	130.9	201.3	280.2	310.4
85°	65.4	97.3	166.1	245.0	273.5
87.5°	31.9	65.4	134.2	208.0	236.6
90°	0.0	36.9	107.4	181.2	206.4
92.5°	1.7	38.6	110.7	182.9	206.4
95°	3.4	41.9	114.1	182.9	204.7
97.5°	6.7	43.6	117.4	182.9	201.3
100°	10.1	45.3	119.1	181.2	198.0
102.5°	11.7	47.0	119.1	179.5	194.6
105°	15.1	48.7	119.1	176.2	191.3
107.5°	16.8	50.3	119.1	172.8	186.2
110°	20.1	50.3	117.4	169.5	182.9



TEST NUMBER: P189040

CATALOG NUMBER: RZL-WL-50L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	23.5	52.0	115.8	166.1	179.5
115°	25.2	52.0	112.4	162.7	176.2
117.5°	28.5	52.0	110.7	157.7	172.8
120°	30.2	52.0	107.4	152.7	167.8
122.5°	31.9	50.3	102.3	147.6	162.7
125°	31.9	48.7	99.0	142.6	156.0
127.5°	33.6	47.0	94.0	134.2	149.3
130°	33.6	45.3	88.9	127.5	142.6
132.5°	33.6	41.9	82.2	120.8	134.2
135°	31.9	40.3	75.5	112.4	125.8
137.5°	31.9	40.3	68.8	104.0	115.8
140°	31.9	38.6	63.8	95.6	107.4
142.5°	31.9	38.6	57.0	87.2	97.3
145°	30.2	38.6	52.0	78.9	88.9
147.5°	30.2	38.6	47.0	70.5	78.9
150°	31.9	36.9	41.9	60.4	70.5
152.5°	31.9	36.9	38.6	53.7	63.8
155°	33.6	36.9	38.6	45.3	57.0
157.5°	33.6	36.9	36.9	40.3	50.3
160°	35.2	36.9	36.9	36.9	45.3
162.5°	35.2	36.9	36.9	35.2	41.9
165°	35.2	36.9	36.9	33.6	38.6
167.5°	36.9	36.9	35.2	31.9	36.9
170°	36.9	36.9	35.2	30.2	35.2
172.5°	36.9	36.9	35.2	28.5	30.2
175°	36.9	36.9	33.6	26.8	18.5
177.5°	36.9	36.9	33.6	26.8	13.4
180°	30.2	30.2	30.2	30.2	30.2

(END OF REPORT)