

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: P189009

Luminaire Tested: **RZL-NL-40L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34812)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RZL-NL-40L830-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH SOLID ALUMINUM SIDES, FROSTED LINEAR PRISMATIC LENS AND INLAY
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3985.5 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.34
Luminous Opening: Rectangular (W 0.53' x L: 3.83' x H: 0')
CIE Type: Direct

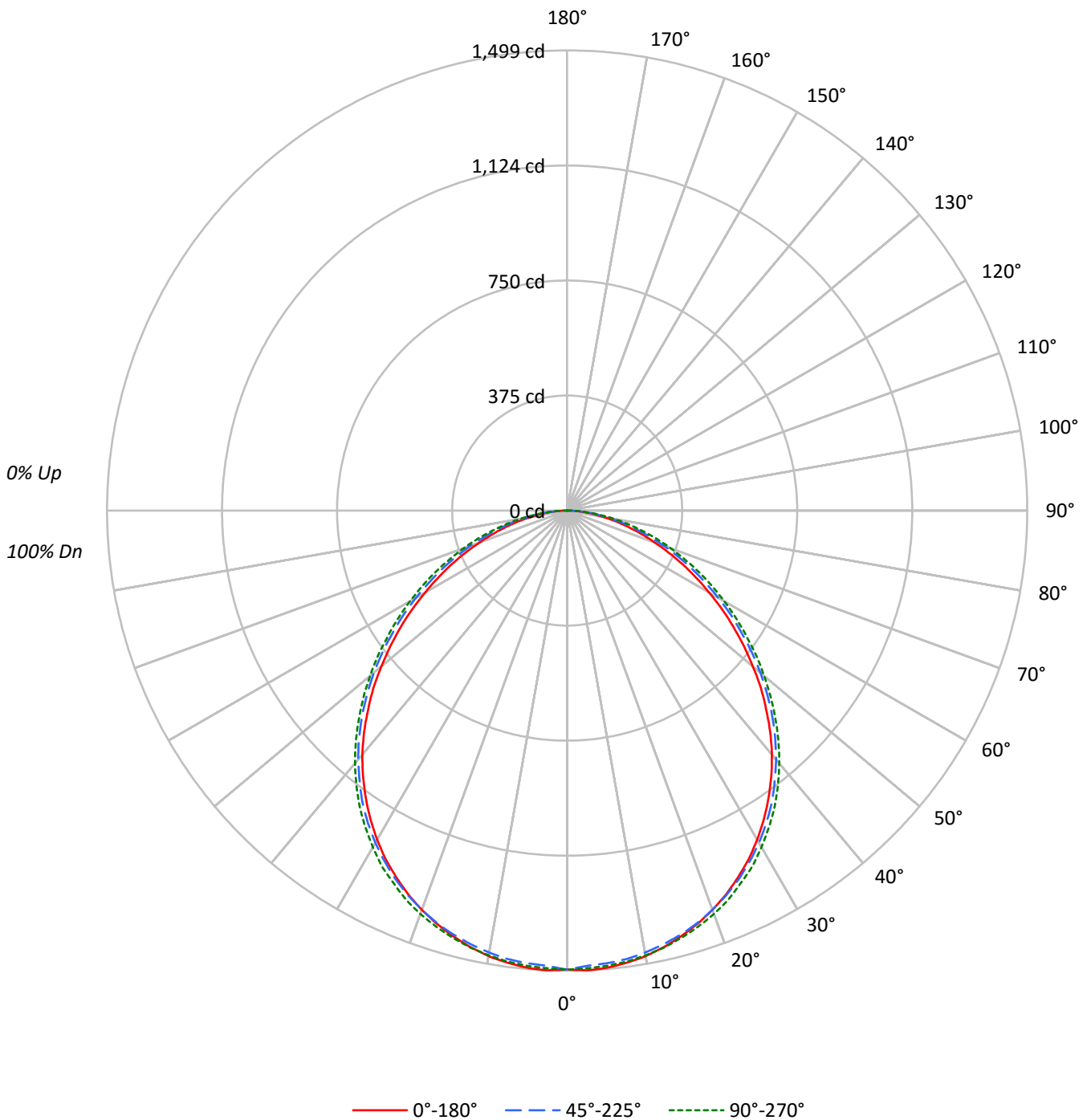
Input Watts (W): 34.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7871	7871	7871
5°	7901	7824	7866
10°	7879	7816	7865
15°	7824	7795	7853
20°	7753	7753	7834
25°	7653	7691	7776
30°	7526	7598	7695
35°	7352	7470	7573
40°	7133	7278	7388
45°	6829	7027	7145
50°	6470	6730	6861
55°	6071	6363	6545
60°	5624	5987	6224
65°	5168	5581	5895
70°	4672	5142	5529
75°	4178	4691	5122
80°	3617	4221	4660
85°	3045	3685	4005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	3.5
10°-20°	405.3	10.2
20°-30°	611.8	15.4
30°-40°	726.1	18.2
40°-50°	726.5	18.2
50°-60°	619.1	15.5
60°-70°	442.5	11.1
70°-80°	244.3	6.1
80°-90°	68.7	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1158.5	29.1
0°-40°	1884.6	47.3
0°-60°	3230.1	81.0
0°-90°	3985.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3985.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1495	1495	1495	1495	1495	
5°	1495	1490	1480	1491	1488	142
15°	1435	1434	1430	1443	1441	405
25°	1317	1320	1324	1341	1339	607
35°	1144	1150	1162	1176	1178	715
45°	917	929	944	960	960	707
55°	661	673	693	712	713	592
65°	415	424	448	469	473	412
75°	205	211	231	248	252	219
85°	50	53	61	66	66	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1495.0	1495.0	1495.0	1495.0	1495.0
2.5°	1499.0	1493.7	1484.4	1493.7	1492.4
5°	1495.0	1489.7	1480.4	1491.0	1488.4
7.5°	1485.7	1480.4	1473.8	1483.1	1481.8
10°	1473.8	1468.5	1461.9	1473.8	1471.2
12.5°	1456.6	1453.9	1447.3	1460.6	1457.9
15°	1435.4	1434.0	1430.1	1443.3	1440.7
17.5°	1411.5	1410.2	1408.9	1423.4	1420.8
20°	1383.7	1383.7	1383.7	1398.3	1398.3
22.5°	1353.2	1353.2	1355.9	1371.8	1371.8
25°	1317.4	1320.1	1324.0	1341.3	1338.6
27.5°	1280.3	1283.0	1288.3	1306.8	1306.8
30°	1237.9	1241.9	1249.8	1265.7	1265.7
32.5°	1192.8	1198.1	1207.4	1223.3	1223.3
35°	1143.8	1150.4	1162.3	1175.6	1178.3
37.5°	1092.1	1097.4	1110.7	1127.9	1127.9
40°	1037.8	1045.7	1059.0	1074.9	1074.9
42.5°	979.4	987.4	1003.3	1017.9	1019.2
45°	917.2	929.1	943.7	959.6	959.6
47.5°	856.2	866.8	884.0	897.3	899.9
50°	789.9	804.5	821.7	836.3	837.6
52.5°	726.3	739.6	758.1	775.3	776.7
55°	661.4	673.3	693.2	711.7	713.0
57.5°	599.1	611.0	632.2	650.8	652.1
60°	534.1	544.7	568.6	587.1	591.1
62.5°	474.5	485.1	506.3	528.8	531.5
65°	414.8	424.1	448.0	469.2	473.2
67.5°	357.8	365.8	389.7	409.5	413.5
70°	303.5	311.5	334.0	353.9	359.2
72.5°	253.1	259.8	281.0	299.5	304.8
75°	205.4	210.7	230.6	247.8	251.8
77.5°	160.4	165.7	182.9	198.8	201.5
80°	119.3	123.3	139.2	151.1	153.7
82.5°	83.5	87.5	98.1	107.4	108.7
85°	50.4	53.0	61.0	66.3	66.3
87.5°	23.9	23.9	27.8	29.2	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)