

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: P189004

Luminaire Tested: **RZL-NB-40L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189004  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34816)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: RZL-NB-40L840-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH OPAQUE SIDES, CLEAR PRISMATIC LENS, INLAY AND INTERNAL BAFFLE  
Light Source: (112) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3898.0 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.3 / 1.33  
Luminous Opening: Rectangular (W 0.53' x L: 3.83' x H: 0')  
CIE Type: Direct

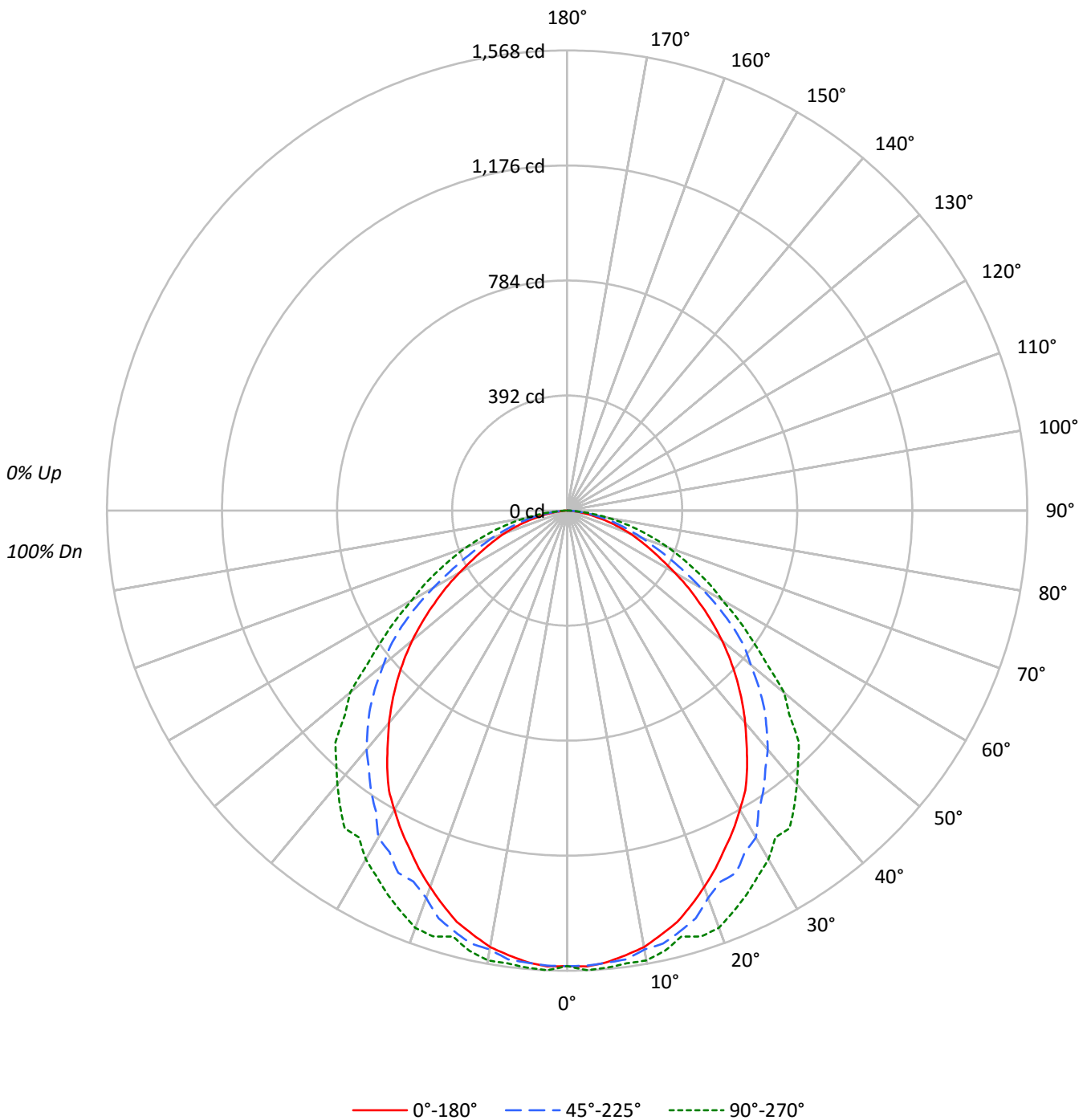
Input Watts (W): 34.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P189004

CATALOG NUMBER: RZL-NB-40L840-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P189004

CATALOG NUMBER: RZL-NB-40L840-1D-UNV-STD-W-4

**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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8172	8172	8172
5°	8166	8173	8262
10°	8073	8118	8320
15°	7909	8093	8192
20°	7650	7870	8476
25°	7385	7915	8396
30°	7156	7822	8343
35°	6870	7493	8495
40°	6487	7308	8370
45°	6097	7070	8315
50°	5638	6685	7904
55°	5067	6318	7065
60°	4452	5546	6419
65°	3902	4778	6020
70°	3502	4152	5622
75°	2887	3658	5057
80°	2171	3023	4217
85°	1275	2036	2803



TEST NUMBER: P189004

CATALOG NUMBER: RZL-NB-40L840-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.5	3.8
10°-20°	418.4	10.7
20°-30°	625.7	16.1
30°-40°	735.6	18.9
40°-50°	736.3	18.9
50°-60°	598.5	15.4
60°-70°	391.2	10.0
70°-80°	200.7	5.1
80°-90°	44.2	1.1
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°	1191.6	30.6
0°-40°	1927.2	49.4
0°-60°	3262.0	83.7
0°-90°	3898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3898.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1545	1555	1546	1554	1563	146
15°	1451	1455	1485	1504	1503	407
25°	1271	1294	1362	1417	1445	586
35°	1069	1097	1166	1243	1322	667
45°	819	861	950	1059	1117	631
55°	552	593	688	743	770	496
65°	313	336	384	448	483	314
75°	142	143	180	236	249	153
85°	21	24	34	44	46	29
90°	0	0	0	0	0	



TEST NUMBER: P189004

CATALOG NUMBER: RZL-NB-40L840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1552.1	1552.1	1552.1	1552.1	1552.1
2.5°	1554.9	1547.9	1552.1	1570.4	1567.5
5°	1545.1	1554.9	1546.5	1553.5	1563.3
7.5°	1528.2	1543.7	1542.3	1547.9	1556.3
10°	1510.0	1517.0	1518.4	1549.3	1556.3
12.5°	1480.5	1494.5	1511.4	1522.6	1536.6
15°	1451.0	1455.2	1484.7	1504.3	1502.9
17.5°	1408.8	1424.3	1456.6	1473.4	1521.2
20°	1365.3	1390.6	1404.6	1495.9	1512.8
22.5°	1320.3	1344.2	1368.1	1470.6	1479.1
25°	1271.2	1293.6	1362.5	1417.2	1445.3
27.5°	1226.2	1248.7	1311.9	1389.2	1406.0
30°	1177.1	1203.7	1286.6	1347.0	1372.3
32.5°	1130.7	1146.2	1213.6	1300.7	1320.3
35°	1068.9	1097.0	1165.8	1243.1	1321.7
37.5°	1004.3	1033.8	1109.6	1227.6	1271.2
40°	943.9	980.4	1063.3	1167.2	1217.8
42.5°	882.1	925.6	1005.7	1115.3	1164.4
45°	818.9	861.0	949.5	1059.1	1116.7
47.5°	754.3	796.4	883.5	1002.9	1025.4
50°	688.3	729.0	816.1	908.8	965.0
52.5°	622.2	658.8	759.9	825.9	856.8
55°	552.0	592.7	688.3	743.0	769.7
57.5°	490.2	522.5	608.2	651.7	691.1
60°	422.8	457.9	526.7	574.5	609.6
62.5°	363.8	396.1	449.5	511.3	550.6
65°	313.2	335.7	383.5	448.1	483.2
67.5°	269.7	280.9	320.3	394.7	422.8
70°	227.5	231.8	269.7	341.3	365.2
72.5°	184.0	185.4	223.3	286.5	304.8
75°	141.9	143.3	179.8	236.0	248.6
77.5°	103.9	106.8	139.1	184.0	193.8
80°	71.6	74.4	99.7	129.2	139.1
82.5°	43.5	46.4	63.2	85.7	91.3
85°	21.1	23.9	33.7	43.5	46.4
87.5°	7.0	8.4	12.6	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)