

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: P189005

Luminaire Tested: **RZL-NB-50L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189005  
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-50L840-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH OPAQUE SIDES, CLEAR PRISMATIC LENS, INLAY AND INTERNAL BAFFLE  
Light Source: (224) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4933.5 lumens  
Efficiency: N/A  
Efficacy: 120.6 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

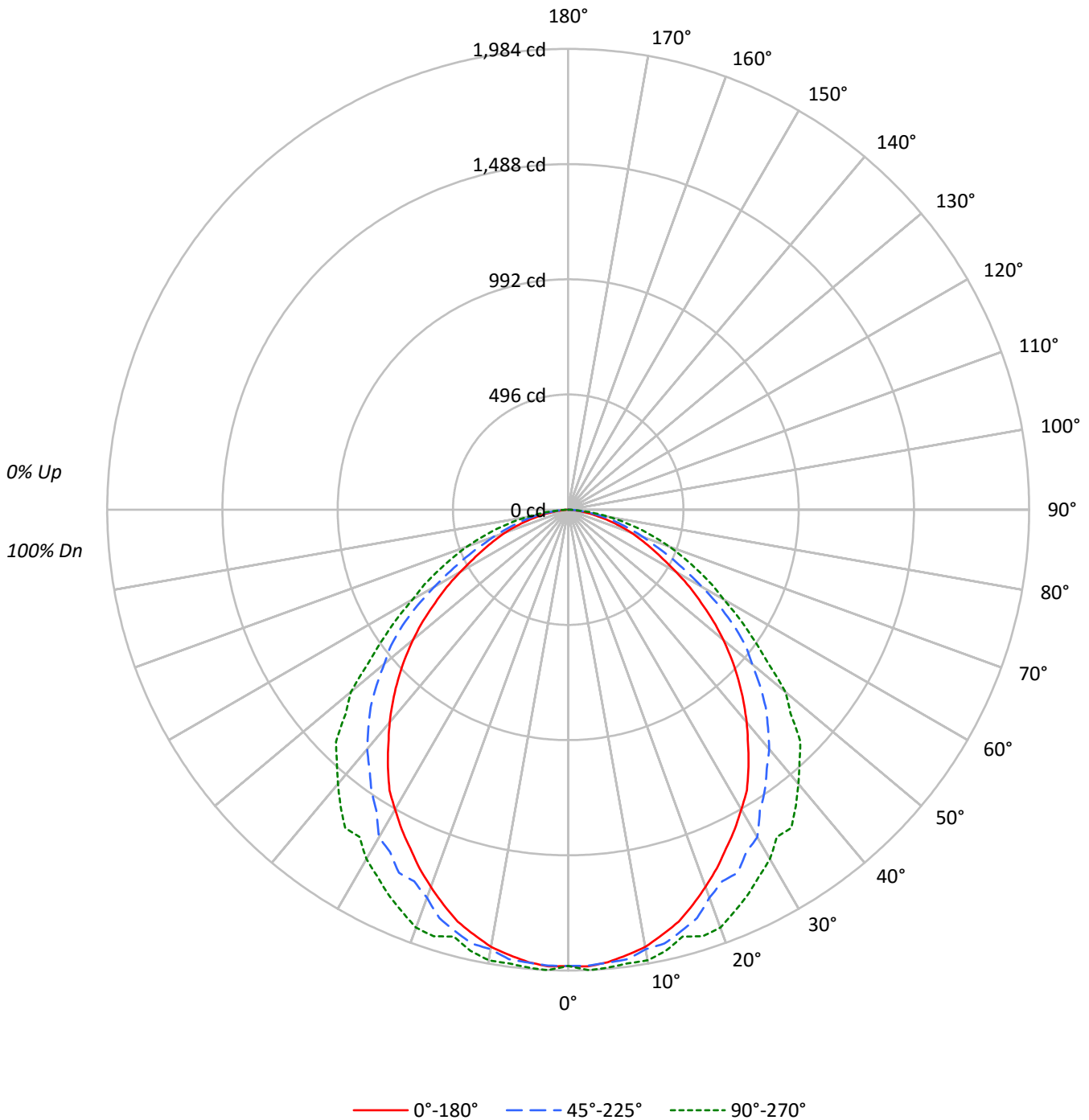
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	10342	10342	10342
5°	10335	10344	10457
10°	10217	10274	10530
15°	10010	10242	10368
20°	9681	9960	10727
25°	9346	10017	10627
30°	9057	9900	10559
35°	8695	9484	10752
40°	8210	9249	10593
45°	7717	8948	10523
50°	7135	8460	10003
55°	6413	7996	8942
60°	5635	7019	8124
65°	4938	6046	7618
70°	4433	5254	7115
75°	3651	4628	6402
80°	2750	3826	5336
85°	1613	2579	3546



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.6	3.8
10°-20°	529.6	10.7
20°-30°	791.9	16.1
30°-40°	931.0	18.9
40°-50°	931.8	18.9
50°-60°	757.5	15.4
60°-70°	495.0	10.0
70°-80°	254.1	5.1
80°-90°	55.9	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°	1508.1	30.6
0°-40°	2439.1	49.4
0°-60°	4128.5	83.7
0°-90°	4933.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4933.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1956	1968	1957	1966	1979	185
15°	1836	1842	1879	1904	1902	516
25°	1609	1637	1724	1794	1829	742
35°	1353	1388	1476	1573	1673	844
45°	1036	1090	1202	1340	1413	798
55°	699	750	871	940	974	627
65°	396	425	485	567	612	398
75°	180	181	228	299	315	193
85°	27	30	43	55	59	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1964.4	1964.4	1964.4	1964.4	1964.4
2.5°	1967.9	1959.0	1964.4	1987.5	1983.9
5°	1955.5	1967.9	1957.3	1966.2	1978.6
7.5°	1934.2	1953.7	1951.9	1959.0	1969.7
10°	1911.0	1919.9	1921.7	1960.8	1969.7
12.5°	1873.7	1891.5	1912.8	1927.0	1944.8
15°	1836.4	1841.7	1879.0	1903.9	1902.2
17.5°	1783.1	1802.6	1843.5	1864.8	1925.3
20°	1727.9	1759.9	1777.7	1893.3	1914.6
22.5°	1671.1	1701.3	1731.5	1861.3	1871.9
25°	1608.8	1637.3	1724.4	1793.7	1829.3
27.5°	1551.9	1580.4	1660.4	1758.2	1779.5
30°	1489.7	1523.5	1628.4	1704.8	1736.8
32.5°	1431.1	1450.6	1535.9	1646.2	1671.1
35°	1352.8	1388.4	1475.5	1573.3	1672.8
37.5°	1271.1	1308.4	1404.4	1553.7	1608.8
40°	1194.6	1240.8	1345.7	1477.3	1541.3
42.5°	1116.4	1171.5	1272.8	1411.5	1473.7
45°	1036.4	1089.7	1201.7	1340.4	1413.3
47.5°	954.6	1008.0	1118.2	1269.3	1297.7
50°	871.1	922.6	1032.9	1150.2	1221.3
52.5°	787.5	833.8	961.7	1045.3	1084.4
55°	698.6	750.2	871.1	940.4	974.2
57.5°	620.4	661.3	769.8	824.9	874.6
60°	535.1	579.5	666.6	727.1	771.5
62.5°	460.4	501.3	568.9	647.1	696.9
65°	396.4	424.9	485.3	567.1	611.5
67.5°	341.3	355.5	405.3	499.5	535.1
70°	288.0	293.3	341.3	432.0	462.2
72.5°	232.9	234.7	282.7	362.7	385.8
75°	179.5	181.3	227.5	298.7	314.7
77.5°	131.6	135.1	176.0	232.9	245.3
80°	90.7	94.2	126.2	163.6	176.0
82.5°	55.1	58.7	80.0	108.4	115.6
85°	26.7	30.2	42.7	55.1	58.7
87.5°	8.9	10.7	16.0	19.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)