

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: P189000

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189000  
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-50L835-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH OPAQUE SIDES, CLEAR PRISMATIC LENS, INLAY AND INTERNAL BAFFLE  
Light Source: (224) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4816.0 lumens  
Efficiency: N/A  
Efficacy: 117.8 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

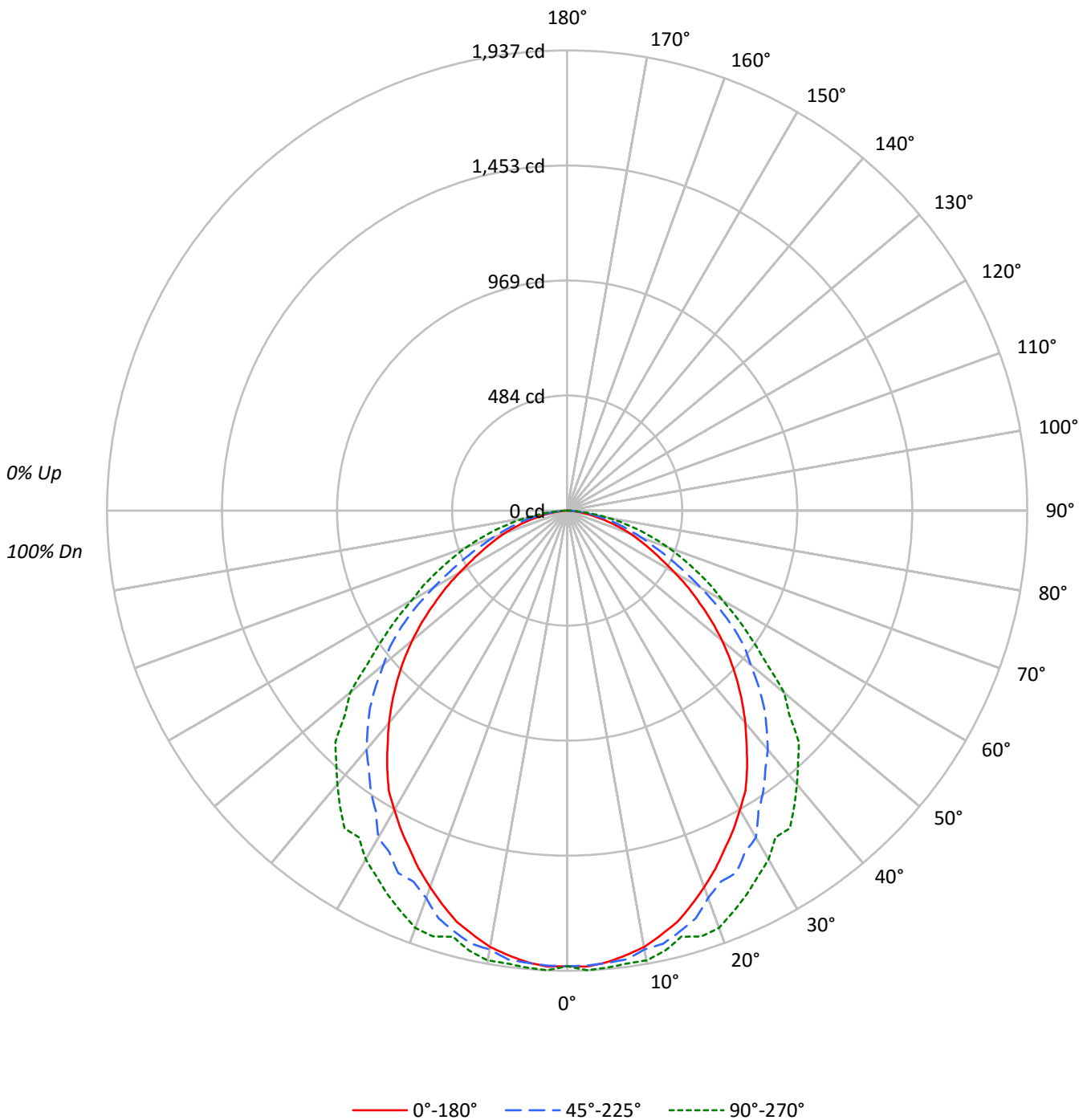
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	10096	10096	10096
5°	10089	10098	10208
10°	9974	10029	10280
15°	9771	9998	10121
20°	9451	9723	10472
25°	9123	9779	10374
30°	8841	9664	10308
35°	8488	9258	10496
40°	8015	9029	10341
45°	7533	8735	10272
50°	6965	8259	9765
55°	6260	7805	8729
60°	5501	6853	7931
65°	4821	5903	7437
70°	4327	5129	6946
75°	3566	4518	6249
80°	2683	3735	5209
85°	1571	2513	3461



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.2	3.8
10°-20°	517.0	10.7
20°-30°	773.0	16.1
30°-40°	908.9	18.9
40°-50°	909.7	18.9
50°-60°	739.4	15.4
60°-70°	483.3	10.0
70°-80°	248.0	5.1
80°-90°	54.6	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°	1472.2	30.6
0°-40°	2381.1	49.4
0°-60°	4030.2	83.7
0°-90°	4816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4816.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1918	1918	1918	1918	1918	
5°	1909	1921	1911	1919	1932	181
15°	1793	1798	1834	1859	1857	503
25°	1570	1598	1683	1751	1786	724
35°	1321	1355	1440	1536	1633	824
45°	1012	1064	1173	1308	1380	779
55°	682	732	850	918	951	612
65°	387	415	474	554	597	388
75°	175	177	222	292	307	189
85°	26	30	42	54	57	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1921.1	1912.4	1917.6	1940.2	1936.7
5°	1908.9	1921.1	1910.7	1919.4	1931.5
7.5°	1888.1	1907.2	1905.5	1912.4	1922.8
10°	1865.6	1874.2	1876.0	1914.2	1922.8
12.5°	1829.1	1846.5	1867.3	1881.2	1898.5
15°	1792.7	1797.9	1834.3	1858.6	1856.9
17.5°	1740.6	1759.7	1799.6	1820.4	1879.4
20°	1686.8	1718.1	1735.4	1848.2	1869.0
22.5°	1631.3	1660.8	1690.3	1817.0	1827.4
25°	1570.5	1598.3	1683.3	1751.0	1785.7
27.5°	1515.0	1542.8	1620.9	1716.3	1737.1
30°	1454.3	1487.2	1589.6	1664.3	1695.5
32.5°	1397.0	1416.1	1499.4	1607.0	1631.3
35°	1320.6	1355.4	1440.4	1535.8	1633.0
37.5°	1240.8	1277.3	1371.0	1516.7	1570.5
40°	1166.2	1211.3	1313.7	1442.1	1504.6
42.5°	1089.8	1143.6	1242.6	1377.9	1438.7
45°	1011.7	1063.8	1173.1	1308.5	1379.6
47.5°	931.9	984.0	1091.6	1239.1	1266.8
50°	850.3	900.7	1008.3	1122.8	1192.2
52.5°	768.8	813.9	938.9	1020.4	1058.6
55°	682.0	732.3	850.3	918.0	951.0
57.5°	605.7	645.6	751.4	805.2	853.8
60°	522.4	565.7	650.8	709.8	753.2
62.5°	449.5	489.4	555.3	631.7	680.3
65°	387.0	414.8	473.8	553.6	597.0
67.5°	333.2	347.1	395.7	487.6	522.4
70°	281.1	286.3	333.2	421.7	451.2
72.5°	227.3	229.1	275.9	354.0	376.6
75°	175.3	177.0	222.1	291.5	307.2
77.5°	128.4	131.9	171.8	227.3	239.5
80°	88.5	92.0	123.2	159.7	171.8
82.5°	53.8	57.3	78.1	105.9	112.8
85°	26.0	29.5	41.6	53.8	57.3
87.5°	8.7	10.4	15.6	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)