

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: P189020

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189020  
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-50L840-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH SOLID ALUMINUM SIDES, FROSTED LINEAR PRISMATIC LENS AND INLAY  
Light Source: (224) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5345.9 lumens  
Efficiency: N/A  
Efficacy: 130.7 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

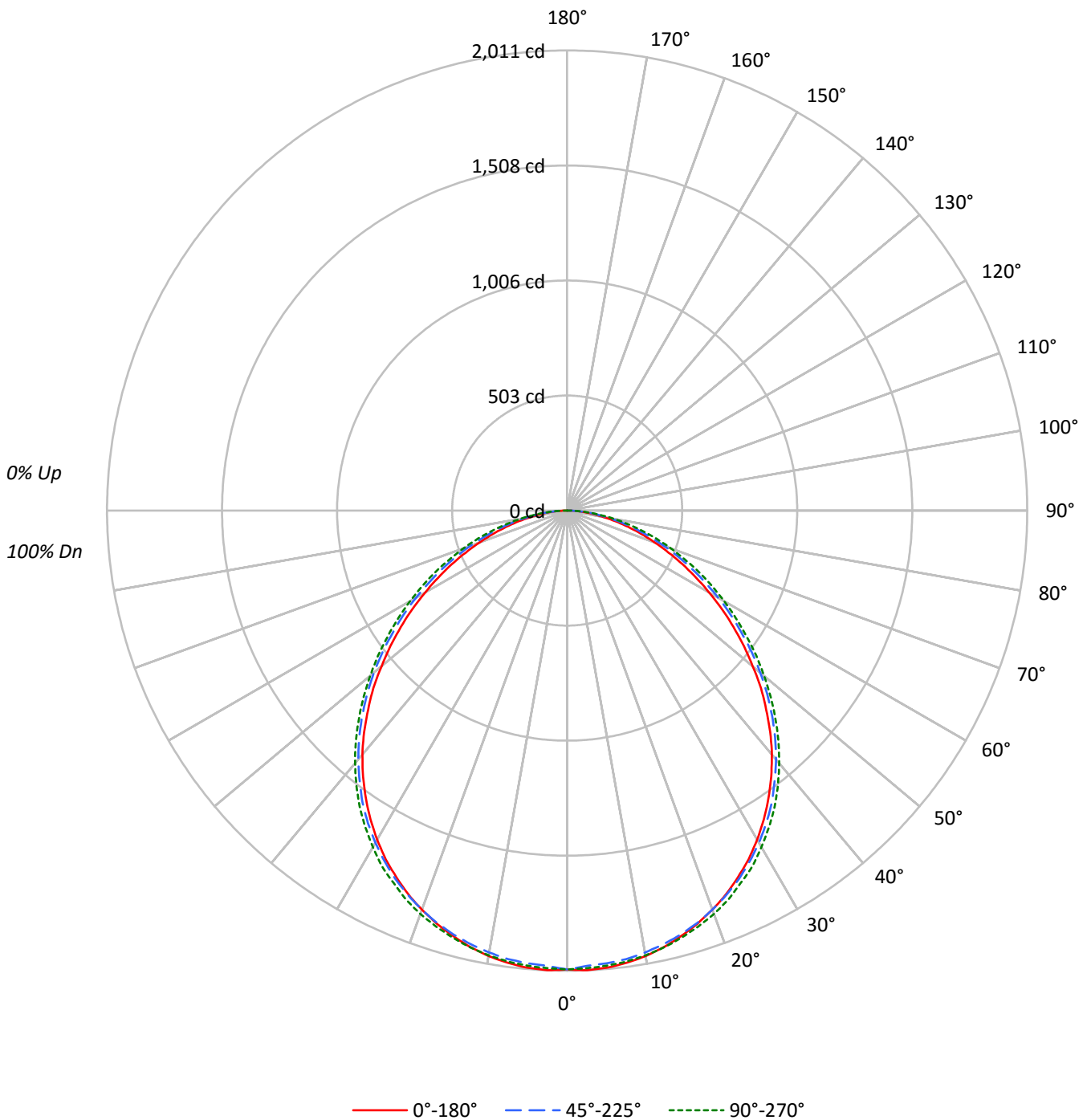
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	10558	10558	10558
5°	10598	10495	10551
10°	10569	10483	10550
15°	10494	10456	10533
20°	10399	10399	10509
25°	10266	10317	10431
30°	10094	10192	10322
35°	9861	10021	10158
40°	9567	9762	9909
45°	9160	9425	9583
50°	8679	9028	9203
55°	8143	8535	8779
60°	7544	8031	8349
65°	6932	7486	7907
70°	6267	6896	7417
75°	5606	6292	6872
80°	4851	5661	6252
85°	4084	4941	5370



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.7	3.5
10°-20°	543.6	10.2
20°-30°	820.6	15.3
30°-40°	974.0	18.2
40°-50°	974.4	18.2
50°-60°	830.4	15.5
60°-70°	593.5	11.1
70°-80°	327.6	6.1
80°-90°	92.1	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°	1553.9	29.1
0°-40°	2527.9	47.3
0°-60°	4332.7	81.0
0°-90°	5345.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5345.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2005	2005	2005	2005	2005	
5°	2005	1998	1986	2000	1996	190
15°	1925	1924	1918	1936	1932	543
25°	1767	1771	1776	1799	1796	814
35°	1534	1543	1559	1577	1580	959
45°	1230	1246	1266	1287	1287	949
55°	887	903	930	955	956	794
65°	556	569	601	629	635	553
75°	276	283	309	332	338	294
85°	68	71	82	89	89	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2005.3	2005.3	2005.3	2005.3	2005.3
2.5°	2010.7	2003.6	1991.1	2003.6	2001.8
5°	2005.3	1998.2	1985.8	2000.0	1996.4
7.5°	1992.9	1985.8	1976.9	1989.3	1987.6
10°	1976.9	1969.8	1960.9	1976.9	1973.3
12.5°	1953.8	1950.2	1941.3	1959.1	1955.6
15°	1925.3	1923.6	1918.2	1936.0	1932.4
17.5°	1893.3	1891.6	1889.8	1909.3	1905.8
20°	1856.0	1856.0	1856.0	1875.6	1875.6
22.5°	1815.1	1815.1	1818.7	1840.0	1840.0
25°	1767.1	1770.7	1776.0	1799.1	1795.6
27.5°	1717.3	1720.9	1728.0	1752.9	1752.9
30°	1660.4	1665.8	1676.4	1697.8	1697.8
32.5°	1600.0	1607.1	1619.6	1640.9	1640.9
35°	1534.2	1543.1	1559.1	1576.9	1580.4
37.5°	1464.9	1472.0	1489.8	1512.9	1512.9
40°	1392.0	1402.7	1420.4	1441.8	1441.8
42.5°	1313.8	1324.4	1345.8	1365.3	1367.1
45°	1230.2	1246.2	1265.8	1287.1	1287.1
47.5°	1148.4	1162.7	1185.8	1203.6	1207.1
50°	1059.6	1079.1	1102.2	1121.8	1123.6
52.5°	974.2	992.0	1016.9	1040.0	1041.8
55°	887.1	903.1	929.8	954.7	956.4
57.5°	803.6	819.6	848.0	872.9	874.7
60°	716.4	730.7	762.7	787.6	792.9
62.5°	636.4	650.7	679.1	709.3	712.9
65°	556.4	568.9	600.9	629.3	634.7
67.5°	480.0	490.7	522.7	549.3	554.7
70°	407.1	417.8	448.0	474.7	481.8
72.5°	339.6	348.4	376.9	401.8	408.9
75°	275.6	282.7	309.3	332.4	337.8
77.5°	215.1	222.2	245.3	266.7	270.2
80°	160.0	165.3	186.7	202.7	206.2
82.5°	112.0	117.3	131.6	144.0	145.8
85°	67.6	71.1	81.8	88.9	88.9
87.5°	32.0	32.0	37.3	39.1	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)