

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: P188995

Luminaire Tested: **RZL-NB-50L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188995  
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-50L830-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH OPAQUE SIDES, CLEAR PRISMATIC LENS, INLAY AND INTERNAL BAFFLE  
Light Source: (224) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4655.0 lumens  
Efficiency: N/A  
Efficacy: 113.8 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

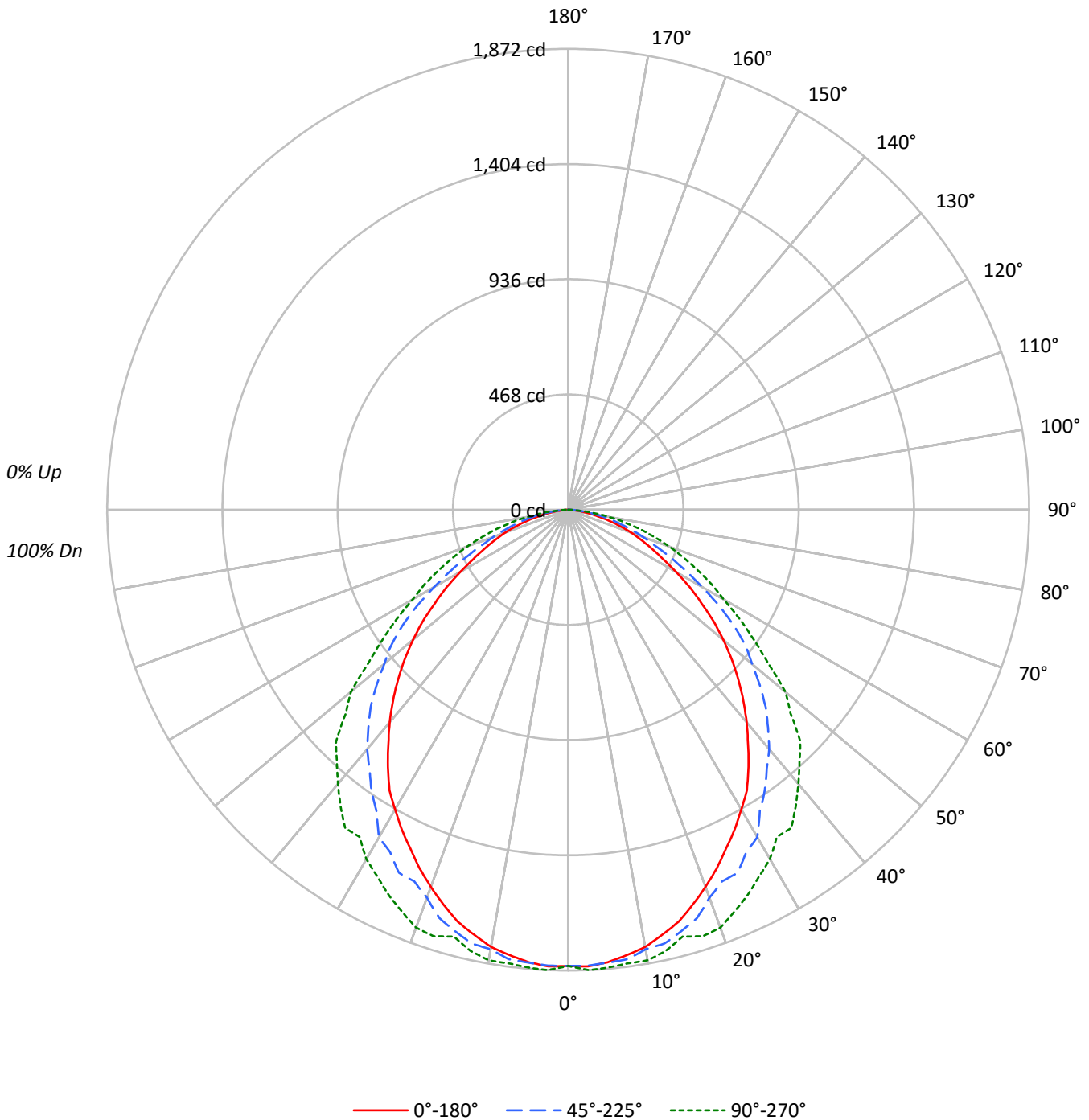
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	9759	9759	9759
5°	9751	9760	9867
10°	9640	9694	9936
15°	9444	9664	9783
20°	9135	9398	10122
25°	8818	9452	10027
30°	8545	9341	9963
35°	8204	8948	10145
40°	7747	8727	9995
45°	7281	8443	9929
50°	6732	7983	9439
55°	6051	7544	8438
60°	5317	6623	7666
65°	4661	5705	7188
70°	4182	4958	6713
75°	3446	4367	6040
80°	2592	3611	5036
85°	1522	2434	3347



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.1	3.8
10°-20°	499.7	10.7
20°-30°	747.2	16.1
30°-40°	878.5	18.9
40°-50°	879.2	18.9
50°-60°	714.7	15.4
60°-70°	467.1	10.0
70°-80°	239.7	5.1
80°-90°	52.7	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°	1423.0	30.6
0°-40°	2301.5	49.4
0°-60°	3895.5	83.7
0°-90°	4655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4655.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1854	1854	1854	1854	1854	
5°	1845	1857	1847	1855	1867	175
15°	1733	1738	1773	1796	1795	486
25°	1518	1545	1627	1692	1726	700
35°	1276	1310	1392	1484	1578	796
45°	978	1028	1134	1265	1334	753
55°	659	708	822	887	919	592
65°	374	401	458	535	577	375
75°	169	171	215	282	297	182
85°	25	28	40	52	55	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1853.5	1853.5	1853.5	1853.5	1853.5
2.5°	1856.9	1848.5	1853.5	1875.3	1872.0
5°	1845.1	1856.9	1846.8	1855.2	1866.9
7.5°	1825.0	1843.4	1841.8	1848.5	1858.5
10°	1803.2	1811.6	1813.2	1850.1	1858.5
12.5°	1768.0	1784.7	1804.9	1818.3	1835.1
15°	1732.7	1737.8	1773.0	1796.5	1794.8
17.5°	1682.4	1700.9	1739.4	1759.6	1816.6
20°	1630.4	1660.6	1677.4	1786.4	1806.5
22.5°	1576.7	1605.3	1633.8	1756.2	1766.3
25°	1518.0	1544.9	1627.1	1692.5	1726.0
27.5°	1464.4	1491.2	1566.7	1658.9	1679.1
30°	1405.6	1437.5	1536.5	1608.6	1638.8
32.5°	1350.3	1368.7	1449.3	1553.3	1576.7
35°	1276.5	1310.0	1392.2	1484.5	1578.4
37.5°	1199.3	1234.6	1325.1	1466.0	1518.0
40°	1127.2	1170.8	1269.8	1393.9	1454.3
42.5°	1053.4	1105.4	1201.0	1331.8	1390.5
45°	977.9	1028.2	1133.9	1264.7	1333.5
47.5°	900.8	951.1	1055.1	1197.6	1224.5
50°	821.9	870.6	974.6	1085.3	1152.4
52.5°	743.1	786.7	907.5	986.3	1023.2
55°	659.2	707.9	821.9	887.3	919.2
57.5°	585.4	624.0	726.3	778.3	825.3
60°	504.9	546.8	629.0	686.0	728.0
62.5°	434.4	473.0	536.8	610.6	657.5
65°	374.1	400.9	457.9	535.1	577.0
67.5°	322.1	335.5	382.4	471.3	504.9
70°	271.7	276.8	322.1	407.6	436.1
72.5°	219.7	221.4	266.7	342.2	364.0
75°	169.4	171.1	214.7	281.8	296.9
77.5°	124.1	127.5	166.1	219.7	231.5
80°	85.5	88.9	119.1	154.3	166.1
82.5°	52.0	55.4	75.5	102.3	109.0
85°	25.2	28.5	40.3	52.0	55.4
87.5°	8.4	10.1	15.1	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)