

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: P274251

Luminaire Tested: **R6-WL-40L830-LD5-UNV-4-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P274251  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-915-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R6-WL-40L830-LD5-UNV-4-STD  
Description: CORELITE R6 LINEAR PRISMATIC LENS LED LUMINAIRE  
6" x 4'  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3869.3 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.16 / 1.27  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

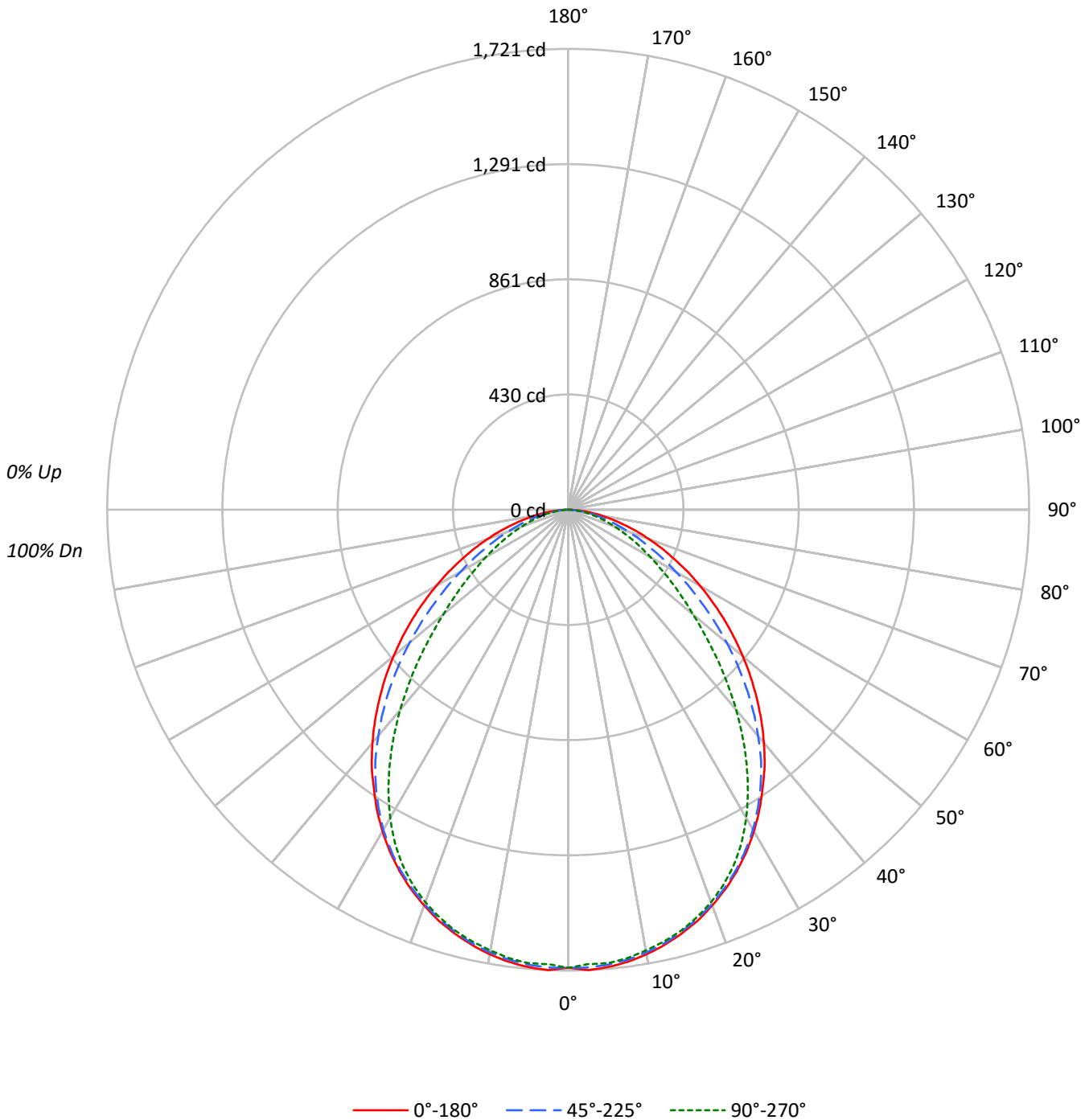
Input Watts (W): 34.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	30	41	35	30	40	34	30	29

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

	0°	45°	90°
0°	11048	11048	11048
5°	11114	11059	11021
10°	11060	11010	10960
15°	10955	10917	10884
20°	10812	10779	10719
25°	10613	10573	10429
30°	10340	10290	9917
35°	9984	9878	9157
40°	9582	9298	8220
45°	9090	8589	7166
50°	8550	7758	6106
55°	7969	6864	5294
60°	7341	5999	4596
65°	6686	5231	4027
70°	6046	4466	3486
75°	5303	3815	3072
80°	4720	3184	2611
85°	4061	2349	1927



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.6	4.2
10°-20°	459.1	11.9
20°-30°	678.3	17.5
30°-40°	766.7	19.8
40°-50°	703.7	18.2
50°-60°	538.2	13.9
60°-70°	347.0	9.0
70°-80°	172.6	4.5
80°-90°	42.1	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°	1299.1	33.6
0°-40°	2065.8	53.4
0°-60°	3307.6	85.5
0°-90°	3869.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3869.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1711	1711	1711	1711	1711	
5°	1714	1696	1706	1700	1700	163
15°	1638	1623	1633	1629	1628	462
25°	1489	1475	1484	1467	1464	685
35°	1266	1261	1253	1190	1162	792
45°	995	992	940	830	785	768
55°	708	698	610	502	470	633
65°	438	417	342	281	264	436
75°	212	191	153	130	123	230
85°	55	40	32	27	26	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1710.6	1710.6	1710.6	1710.6	1710.6
2.5°	1721.2	1702.9	1711.5	1707.7	1699.0
5°	1714.4	1696.2	1705.8	1700.0	1700.0
7.5°	1702.9	1685.6	1695.2	1689.4	1689.4
10°	1686.5	1669.2	1678.8	1673.1	1671.2
12.5°	1664.4	1648.1	1658.7	1651.9	1651.9
15°	1638.5	1623.1	1632.7	1628.8	1627.9
17.5°	1608.7	1593.3	1601.9	1597.1	1596.2
20°	1573.1	1558.7	1568.3	1558.7	1559.6
22.5°	1533.7	1520.2	1527.9	1514.4	1515.4
25°	1489.4	1475.0	1483.7	1467.3	1463.5
27.5°	1440.4	1427.9	1433.7	1411.5	1401.9
30°	1386.5	1376.0	1379.8	1347.1	1329.8
32.5°	1328.8	1320.2	1318.3	1272.1	1249.0
35°	1266.3	1260.6	1252.9	1190.4	1161.5
37.5°	1204.8	1196.2	1182.7	1102.9	1070.2
40°	1136.5	1130.8	1102.9	1013.5	975.0
42.5°	1067.3	1062.5	1024.0	922.1	879.8
45°	995.2	992.3	940.4	829.8	784.6
47.5°	924.0	920.2	856.7	738.5	693.3
50°	851.0	845.2	772.1	651.0	607.7
52.5°	778.8	773.1	690.4	574.0	536.5
55°	707.7	698.1	609.6	501.9	470.2
57.5°	636.5	623.1	535.6	438.5	407.7
60°	568.3	551.9	464.4	380.8	355.8
62.5°	503.8	483.7	402.9	330.8	305.8
65°	437.5	417.3	342.3	280.8	263.5
67.5°	377.9	354.8	288.5	238.5	221.2
70°	320.2	296.2	236.5	198.1	184.6
72.5°	268.3	241.3	193.3	162.5	152.9
75°	212.5	191.3	152.9	129.8	123.1
77.5°	169.2	146.2	117.3	100.0	96.2
80°	126.9	105.8	85.6	74.0	70.2
82.5°	88.5	70.2	56.7	49.0	47.1
85°	54.8	40.4	31.7	26.9	26.0
87.5°	24.0	14.4	11.5	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)