

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: P274252

Luminaire Tested: **R6-WL-40L840-LD5-UNV-4-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274252
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-40L840-LD5-UNV-4-STD
Description: CORELITE R6 LINEAR PRISMATIC LENS LED LUMINAIRE
6" x 4'
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4101.4 lumens
Efficiency: N/A
Efficacy: 118.2 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

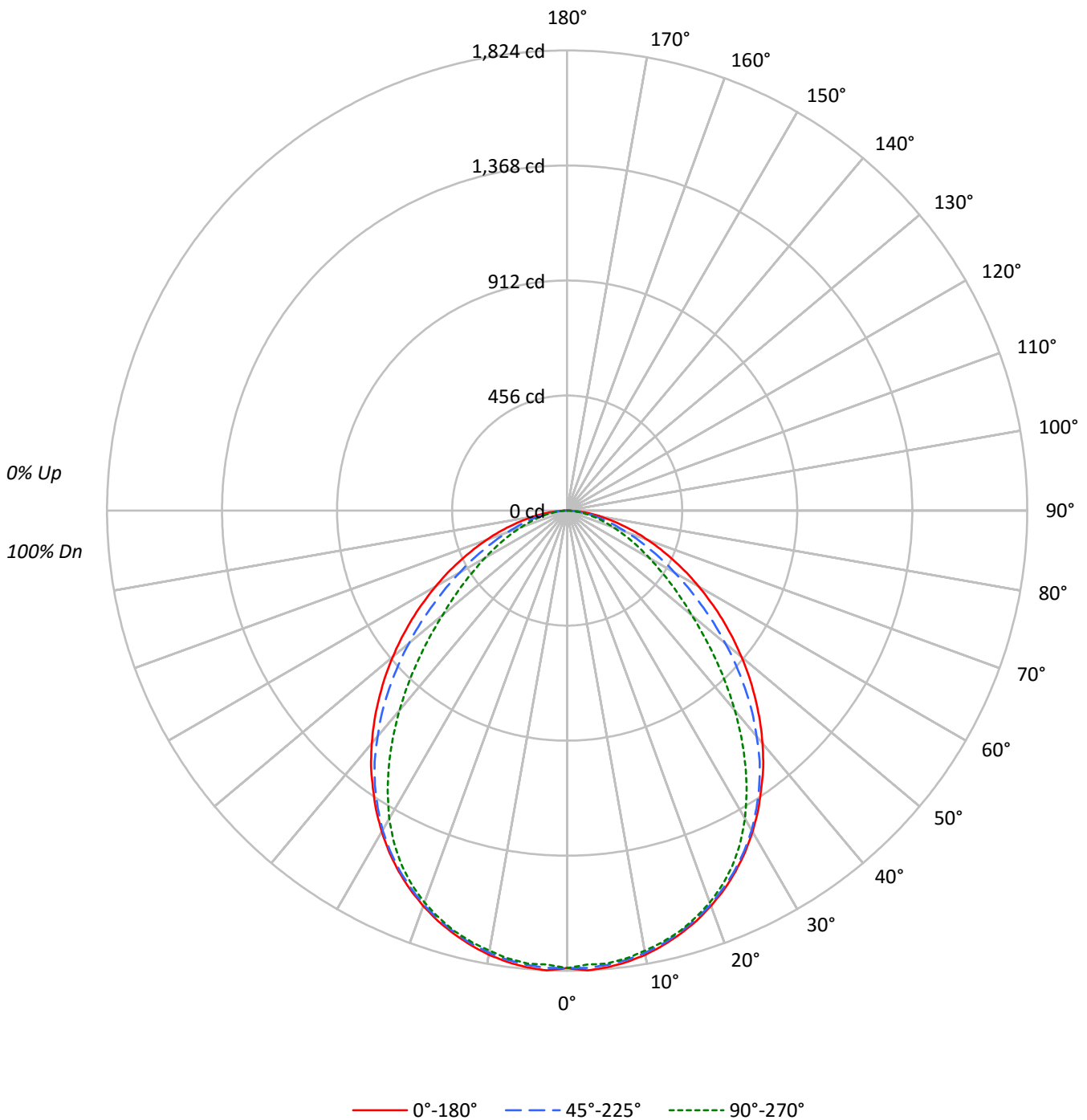
Input Watts (W): 34.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64				64
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55				55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43				43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38				38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35				35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31				31
10	56	43	36	31	55	43	36	31	42	35	30	41	35	30	40	34	30	29				29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11710	11710	11710
5°	11782	11722	11682
10°	11724	11671	11617
15°	11613	11572	11538
20°	11460	11425	11362
25°	11251	11207	11055
30°	10960	10907	10512
35°	10583	10471	9707
40°	10157	9856	8713
45°	9635	9104	7596
50°	9063	8223	6473
55°	8447	7276	5612
60°	7781	6359	4871
65°	7088	5544	4268
70°	6409	4734	3695
75°	5622	4045	3256
80°	5002	3373	2767
85°	4305	2490	2038



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	4.2
10°-20°	486.7	11.9
20°-30°	719.0	17.5
30°-40°	812.7	19.8
40°-50°	745.9	18.2
50°-60°	570.5	13.9
60°-70°	367.8	9.0
70°-80°	182.9	4.5
80°-90°	44.6	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°	1377.0	33.6
0°-40°	2189.8	53.4
0°-60°	3506.1	85.5
0°-90°	4101.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4101.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1813	1813	1813	1813	1813	
5°	1817	1798	1808	1802	1802	172
15°	1737	1720	1731	1727	1726	490
25°	1579	1564	1573	1555	1551	726
35°	1342	1336	1328	1262	1231	839
45°	1055	1052	997	880	832	814
55°	750	740	646	532	498	671
65°	464	442	363	298	279	462
75°	225	203	162	138	130	244
85°	58	43	34	28	28	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1813.2	1813.2	1813.2	1813.2	1813.2
2.5°	1824.4	1805.1	1814.2	1810.2	1801.0
5°	1817.3	1797.9	1808.1	1802.0	1802.0
7.5°	1805.1	1786.7	1796.9	1790.8	1790.8
10°	1787.7	1769.4	1779.6	1773.5	1771.4
12.5°	1764.3	1747.0	1758.2	1751.0	1751.0
15°	1736.8	1720.5	1730.7	1726.6	1725.6
17.5°	1705.2	1688.9	1698.0	1692.9	1691.9
20°	1667.5	1652.2	1662.4	1652.2	1653.2
22.5°	1625.7	1611.4	1619.6	1605.3	1606.3
25°	1578.8	1563.5	1572.7	1555.3	1551.3
27.5°	1526.8	1513.6	1519.7	1496.2	1486.0
30°	1469.7	1458.5	1462.6	1427.9	1409.6
32.5°	1408.6	1399.4	1397.4	1348.4	1324.0
35°	1342.3	1336.2	1328.1	1261.8	1231.2
37.5°	1277.1	1267.9	1253.7	1169.1	1134.4
40°	1204.7	1198.6	1169.1	1074.3	1033.5
42.5°	1131.3	1126.3	1085.5	977.4	932.6
45°	1054.9	1051.8	996.8	879.6	831.7
47.5°	979.5	975.4	908.1	782.8	734.9
50°	902.0	895.9	818.4	690.0	644.2
52.5°	825.6	819.5	731.8	608.5	568.7
55°	750.2	740.0	646.2	532.0	498.4
57.5°	674.7	660.5	567.7	464.8	432.2
60°	602.4	585.0	492.3	403.6	377.1
62.5°	534.1	512.7	427.1	350.6	324.1
65°	463.8	442.3	362.8	297.6	279.3
67.5°	400.6	376.1	305.8	252.8	234.4
70°	339.4	313.9	250.7	210.0	195.7
72.5°	284.4	255.8	204.9	172.3	162.1
75°	225.3	202.8	162.1	137.6	130.5
77.5°	179.4	154.9	124.3	106.0	101.9
80°	134.5	112.1	90.7	78.5	74.4
82.5°	93.8	74.4	60.1	52.0	49.9
85°	58.1	42.8	33.6	28.5	27.5
87.5°	25.5	15.3	12.2	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)