

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: P220233

Luminaire Tested: **R3-WD-4L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35863)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-4L40-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5915.7 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.38 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

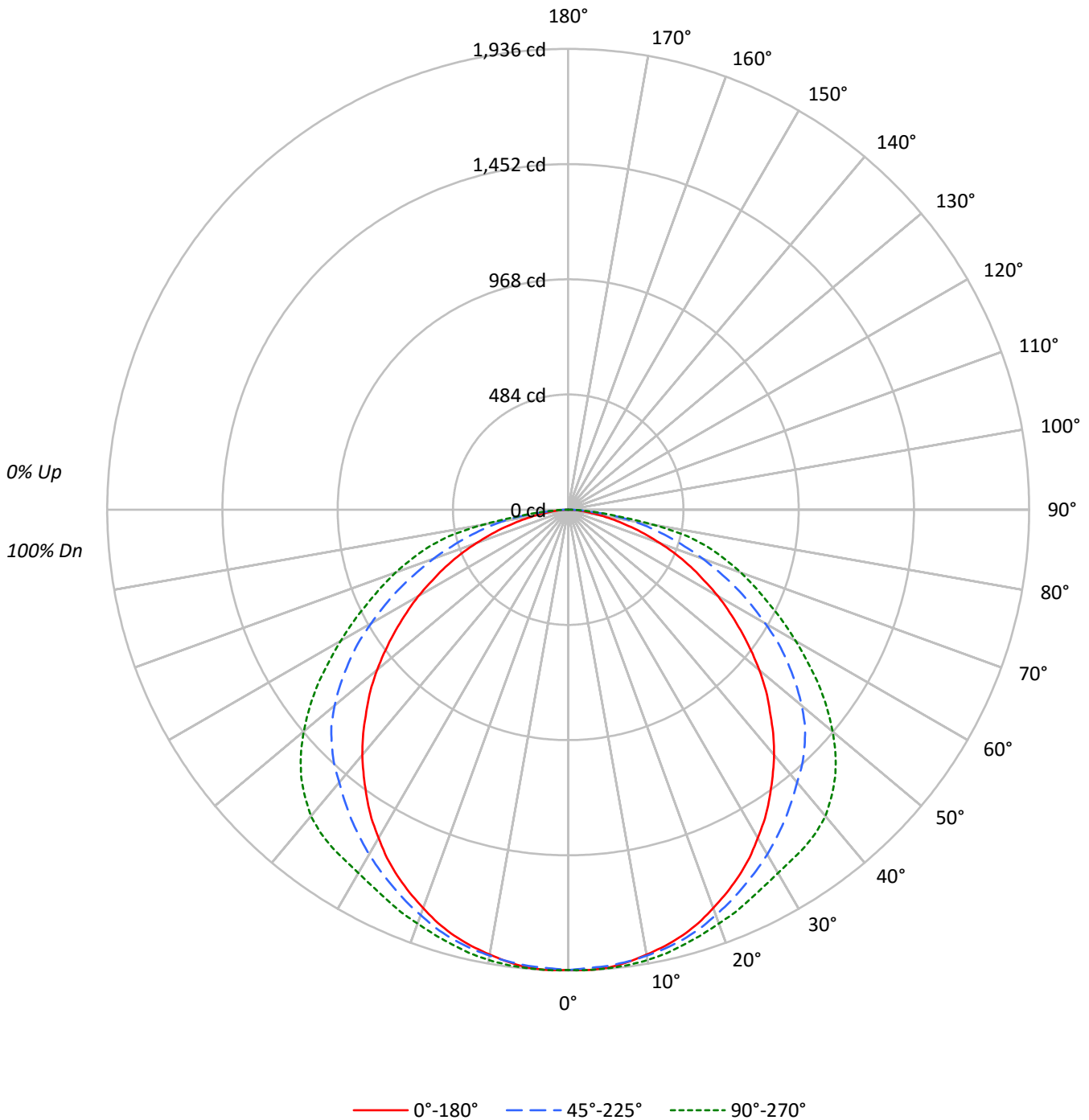
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2602	2602	2602
5°	2609	2598	2612
10°	2594	2599	2625
15°	2580	2603	2633
20°	2550	2595	2649
25°	2519	2591	2681
30°	2474	2598	2738
35°	2423	2609	2843
40°	2363	2628	2951
45°	2281	2671	3018
50°	2193	2680	3035
55°	2074	2644	3018
60°	1956	2571	2971
65°	1808	2481	2955
70°	1607	2365	3033
75°	1362	2244	3159
80°	1072	2176	2825
85°	777	1456	1618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	3.1
10°-20°	528.2	8.9
20°-30°	807.7	13.7
30°-40°	998.9	16.9
40°-50°	1075.6	18.2
50°-60°	987.4	16.7
60°-70°	758.0	12.8
70°-80°	461.3	7.8
80°-90°	115.2	1.9
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°	1519.4	25.7
0°-40°	2518.2	42.6
0°-60°	4581.3	77.4
0°-90°	5915.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5915.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1934	1934	1934	1934	1934	
5°	1932	1928	1923	1932	1934	183
15°	1852	1856	1869	1888	1890	522
25°	1697	1716	1745	1794	1806	781
35°	1475	1502	1588	1689	1731	922
45°	1198	1249	1404	1540	1586	925
55°	884	955	1127	1249	1286	792
65°	568	643	779	890	928	561
75°	262	329	432	557	608	281
85°	50	80	94	98	105	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1933.9	1933.9	1933.9	1933.9	1933.9
2.5°	1936.0	1933.9	1927.6	1933.9	1936.0
5°	1931.8	1927.6	1923.4	1931.8	1933.9
7.5°	1917.1	1917.1	1915.0	1927.6	1929.7
10°	1898.3	1902.4	1902.4	1919.2	1921.3
12.5°	1877.3	1881.5	1887.8	1906.6	1908.7
15°	1852.2	1856.3	1868.9	1887.8	1889.9
17.5°	1820.7	1829.1	1843.8	1864.7	1871.0
20°	1780.9	1795.6	1812.3	1843.8	1850.1
22.5°	1741.1	1757.9	1780.9	1816.5	1831.2
25°	1697.1	1716.0	1745.3	1793.5	1806.1
27.5°	1648.9	1667.8	1709.7	1764.2	1783.0
30°	1592.4	1613.3	1672.0	1734.8	1762.1
32.5°	1537.9	1558.8	1630.1	1709.7	1745.3
35°	1475.0	1502.3	1588.2	1688.7	1730.6
37.5°	1410.1	1439.4	1542.1	1667.8	1709.7
40°	1345.1	1378.6	1496.0	1638.4	1680.4
42.5°	1273.9	1313.7	1454.1	1592.4	1636.4
45°	1198.5	1248.7	1403.8	1540.0	1586.1
47.5°	1127.2	1179.6	1349.3	1483.4	1523.2
50°	1047.6	1108.4	1280.2	1412.2	1449.9
52.5°	965.9	1037.1	1206.8	1338.8	1370.3
55°	884.2	955.4	1127.2	1248.7	1286.5
57.5°	804.6	886.3	1047.6	1162.8	1192.2
60°	727.0	804.6	955.4	1068.6	1104.2
62.5°	643.2	727.0	867.4	980.6	1016.2
65°	567.8	643.2	779.4	890.5	928.2
67.5°	490.3	561.5	687.2	800.4	848.6
70°	408.6	479.8	601.3	720.7	771.0
72.5°	335.2	400.2	513.3	641.1	689.3
75°	261.9	328.9	431.6	557.3	607.6
77.5°	196.9	257.7	354.1	473.5	513.3
80°	138.3	194.9	280.8	354.1	364.6
82.5°	90.1	136.2	184.4	205.3	207.4
85°	50.3	79.6	94.3	98.5	104.8
87.5°	21.0	27.2	35.6	37.7	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)