

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: P220247

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35864)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WN-4L40-LD5-UNV-24  
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6150.5 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

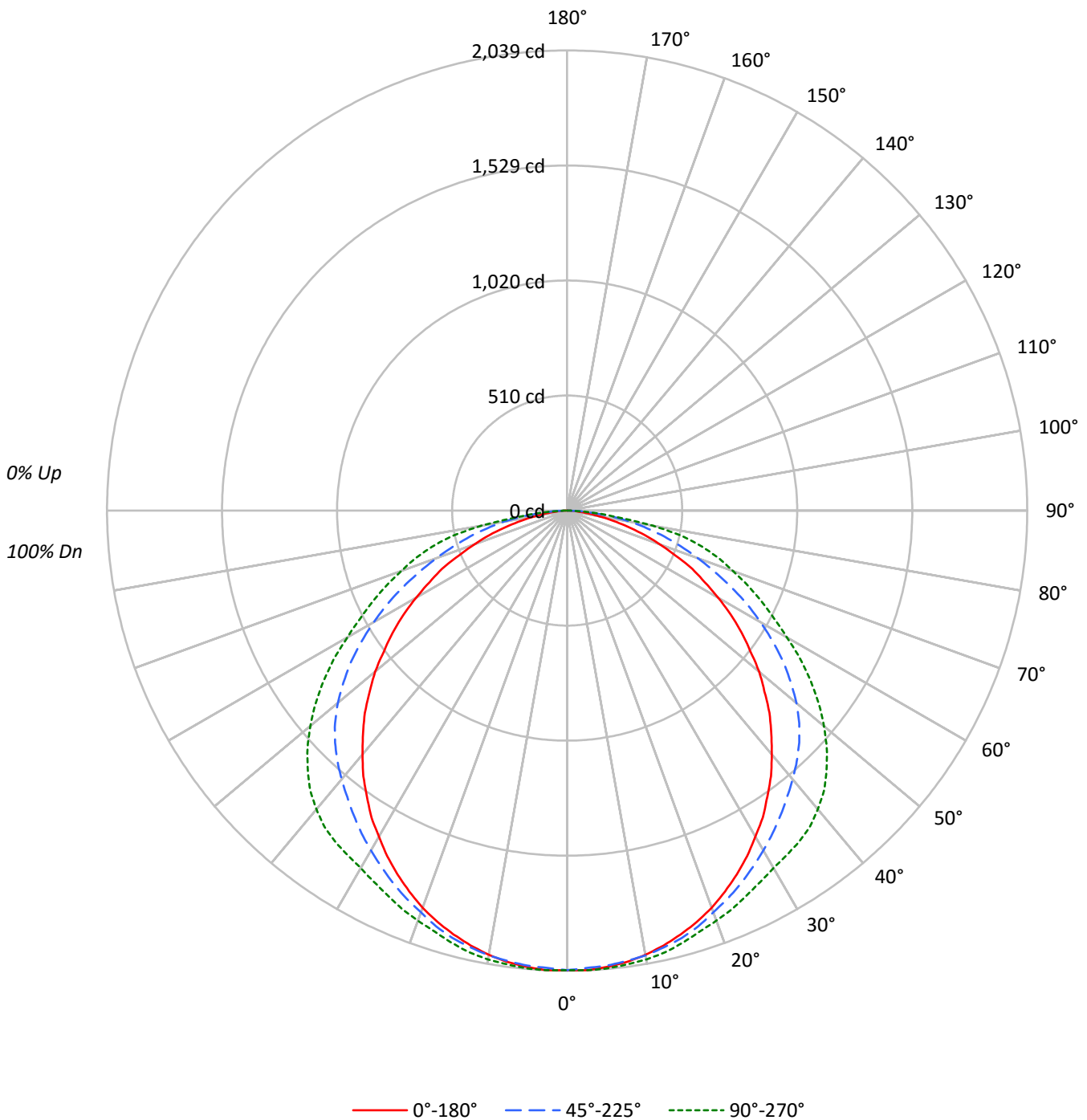
Input Watts (W): 59.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	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	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
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°	2740	2740	2740
5°	2742	2734	2751
10°	2731	2734	2760
15°	2708	2732	2761
20°	2682	2712	2769
25°	2641	2706	2793
30°	2591	2702	2842
35°	2540	2708	2942
40°	2477	2731	3036
45°	2412	2767	3094
50°	2325	2776	3109
55°	2217	2742	3092
60°	2080	2661	3028
65°	1948	2555	3022
70°	1723	2423	3074
75°	1449	2320	3224
80°	1104	2208	2971
85°	744	1618	1973



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.0	3.1
10°-20°	554.0	9.0
20°-30°	843.5	13.7
30°-40°	1039.3	16.9
40°-50°	1115.8	18.1
50°-60°	1024.3	16.7
60°-70°	783.5	12.7
70°-80°	475.0	7.7
80°-90°	122.0	2.0
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°	1590.5	25.9
0°-40°	2629.8	42.8
0°-60°	4769.9	77.6
0°-90°	6150.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6150.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2036	2036	2036	2036	2036	
5°	2030	2028	2024	2034	2036	193
15°	1944	1951	1961	1980	1982	548
25°	1779	1796	1823	1869	1882	819
35°	1546	1571	1649	1750	1791	968
45°	1268	1307	1454	1586	1626	975
55°	945	1008	1169	1282	1318	843
65°	612	673	802	909	949	599
75°	279	339	446	570	620	300
85°	48	82	105	119	128	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2036.5	2036.5	2036.5	2036.5	2036.5
2.5°	2038.6	2036.5	2028.2	2036.5	2038.6
5°	2030.2	2028.2	2024.0	2034.4	2036.5
7.5°	2017.7	2017.7	2013.5	2028.2	2028.2
10°	1998.8	1998.8	2000.9	2015.6	2019.8
12.5°	1973.7	1977.9	1982.1	2003.0	2005.1
15°	1944.3	1950.6	1961.1	1980.0	1982.1
17.5°	1910.8	1919.2	1931.8	1950.6	1954.8
20°	1873.1	1881.5	1894.1	1925.5	1933.9
22.5°	1827.0	1843.8	1860.5	1898.3	1910.8
25°	1778.8	1795.6	1822.8	1868.9	1881.5
27.5°	1726.4	1743.2	1780.9	1835.4	1854.3
30°	1667.8	1688.7	1739.0	1801.9	1829.1
32.5°	1613.3	1632.2	1695.0	1774.6	1810.3
35°	1546.3	1571.4	1648.9	1749.5	1791.4
37.5°	1483.4	1508.5	1600.7	1724.3	1766.3
40°	1410.1	1443.6	1554.6	1688.7	1728.5
42.5°	1338.8	1376.5	1506.4	1642.6	1684.5
45°	1267.6	1307.4	1454.1	1586.1	1625.9
47.5°	1185.9	1234.1	1395.4	1525.3	1560.9
50°	1110.5	1162.8	1326.3	1452.0	1485.5
52.5°	1022.5	1087.4	1248.7	1374.5	1405.9
55°	944.9	1007.8	1169.1	1282.3	1317.9
57.5°	861.1	930.3	1081.1	1190.1	1225.7
60°	773.1	844.4	988.9	1097.9	1125.1
62.5°	687.2	768.9	898.8	999.4	1032.9
65°	611.8	672.6	802.5	909.3	949.1
67.5°	519.6	586.7	706.1	817.1	865.3
70°	437.9	502.8	616.0	733.3	781.5
72.5°	360.4	416.9	528.0	651.6	706.1
75°	278.7	339.4	446.3	569.9	620.2
77.5°	209.5	266.1	362.5	486.1	521.7
80°	142.5	196.9	284.9	370.9	383.4
82.5°	90.1	136.2	194.9	220.0	220.0
85°	48.2	81.7	104.8	119.4	127.8
87.5°	18.9	27.2	39.8	39.8	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)