

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: P220200

Luminaire Tested: **R3-WL-4L35-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220200  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35861)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WL-4L35-LD5-UNV-24  
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6044.5 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

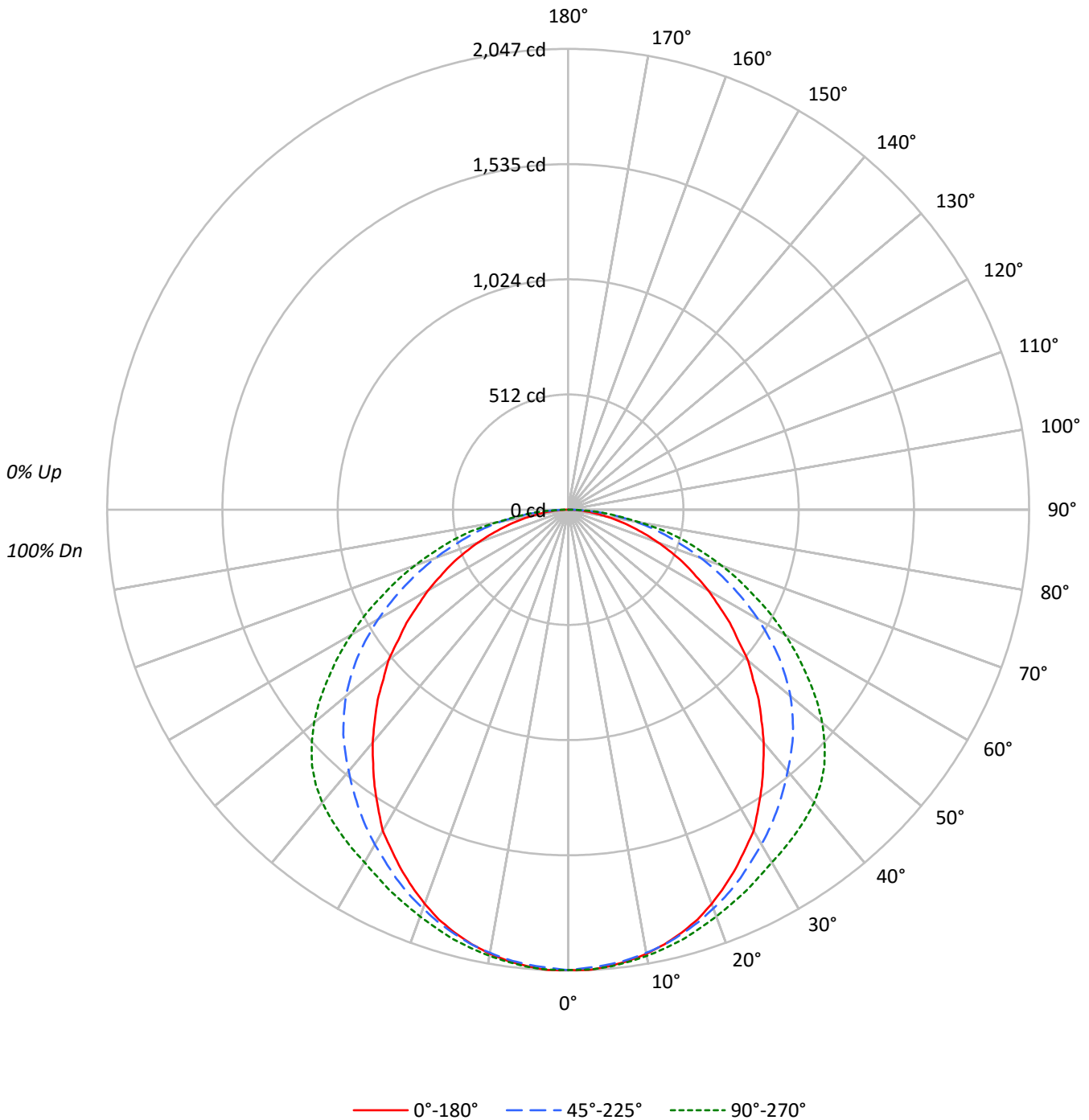
Input Watts (W): 59.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93	97	93	90		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	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35		47	40	35		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	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25		36	30	25		35	29	25	23

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

	0°	45°	90°
0°	2751	2751	2751
5°	2751	2740	2754
10°	2736	2731	2750
15°	2709	2717	2751
20°	2667	2699	2753
25°	2611	2682	2774
30°	2558	2667	2810
35°	2462	2662	2889
40°	2372	2664	2984
45°	2277	2688	3061
50°	2182	2697	3082
55°	2056	2680	3046
60°	1933	2622	2993
65°	1815	2542	2918
70°	1669	2464	2849
75°	1508	2382	2787
80°	1318	2341	2496
85°	1142	2101	2317



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.3	3.2
10°-20°	552.1	9.1
20°-30°	835.1	13.8
30°-40°	1018.5	16.8
40°-50°	1083.9	17.9
50°-60°	993.6	16.4
60°-70°	763.7	12.6
70°-80°	462.7	7.7
80°-90°	141.5	2.3
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°	1580.5	26.1
0°-40°	2599.0	43.0
0°-60°	4676.5	77.4
0°-90°	6044.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6044.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2045	2045	2045	2045	2045	
5°	2037	2035	2029	2039	2039	193
15°	1945	1947	1951	1969	1975	548
25°	1759	1773	1807	1851	1869	810
35°	1499	1535	1621	1721	1759	937
45°	1196	1252	1413	1563	1609	921
55°	876	952	1142	1266	1298	782
65°	570	642	798	894	916	563
75°	290	354	458	526	536	309
85°	74	110	136	152	150	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2044.8	2044.8	2044.8	2044.8	2044.8
2.5°	2046.8	2042.8	2036.8	2044.8	2044.8
5°	2036.8	2034.8	2028.8	2038.8	2038.8
7.5°	2022.8	2020.8	2016.8	2028.8	2026.8
10°	2002.8	2000.8	1998.8	2012.8	2012.8
12.5°	1976.8	1976.8	1978.8	1992.8	1994.8
15°	1944.8	1946.8	1950.8	1968.8	1974.8
17.5°	1908.8	1910.8	1920.8	1944.8	1948.8
20°	1862.8	1868.8	1884.8	1916.8	1922.8
22.5°	1812.7	1822.7	1848.7	1884.8	1894.8
25°	1758.7	1772.7	1806.7	1850.7	1868.8
27.5°	1700.7	1716.7	1760.7	1816.7	1836.7
30°	1646.7	1662.7	1716.7	1786.7	1808.7
32.5°	1570.6	1598.6	1670.7	1752.7	1784.7
35°	1498.6	1534.6	1620.7	1720.7	1758.7
37.5°	1422.6	1468.6	1568.6	1690.7	1730.7
40°	1350.5	1398.6	1516.6	1652.7	1698.7
42.5°	1270.5	1326.5	1464.6	1610.6	1658.7
45°	1196.5	1252.5	1412.6	1562.6	1608.6
47.5°	1112.4	1178.5	1350.5	1506.6	1544.6
50°	1042.4	1104.4	1288.5	1432.6	1472.6
52.5°	950.4	1032.4	1216.5	1352.5	1390.6
55°	876.4	952.4	1142.5	1266.5	1298.5
57.5°	790.3	882.4	1058.4	1180.5	1208.5
60°	718.3	798.3	974.4	1086.4	1112.4
62.5°	640.3	726.3	886.4	990.4	1020.4
65°	570.2	642.3	798.3	894.4	916.4
67.5°	496.2	570.2	712.3	800.3	822.3
70°	424.2	502.2	626.3	706.3	724.3
72.5°	354.1	422.2	538.2	616.2	626.3
75°	290.1	354.1	458.2	526.2	536.2
77.5°	230.1	288.1	382.2	436.2	440.2
80°	170.1	226.1	302.1	330.1	322.1
82.5°	120.0	164.1	220.1	226.1	222.1
85°	74.0	110.0	136.1	152.1	150.1
87.5°	32.0	50.0	70.0	66.0	70.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)