

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: P220228

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220228  
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-4L35-LD5-UNV-24  
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5649.2 lumens  
Efficiency: N/A  
Efficacy: 94.5 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

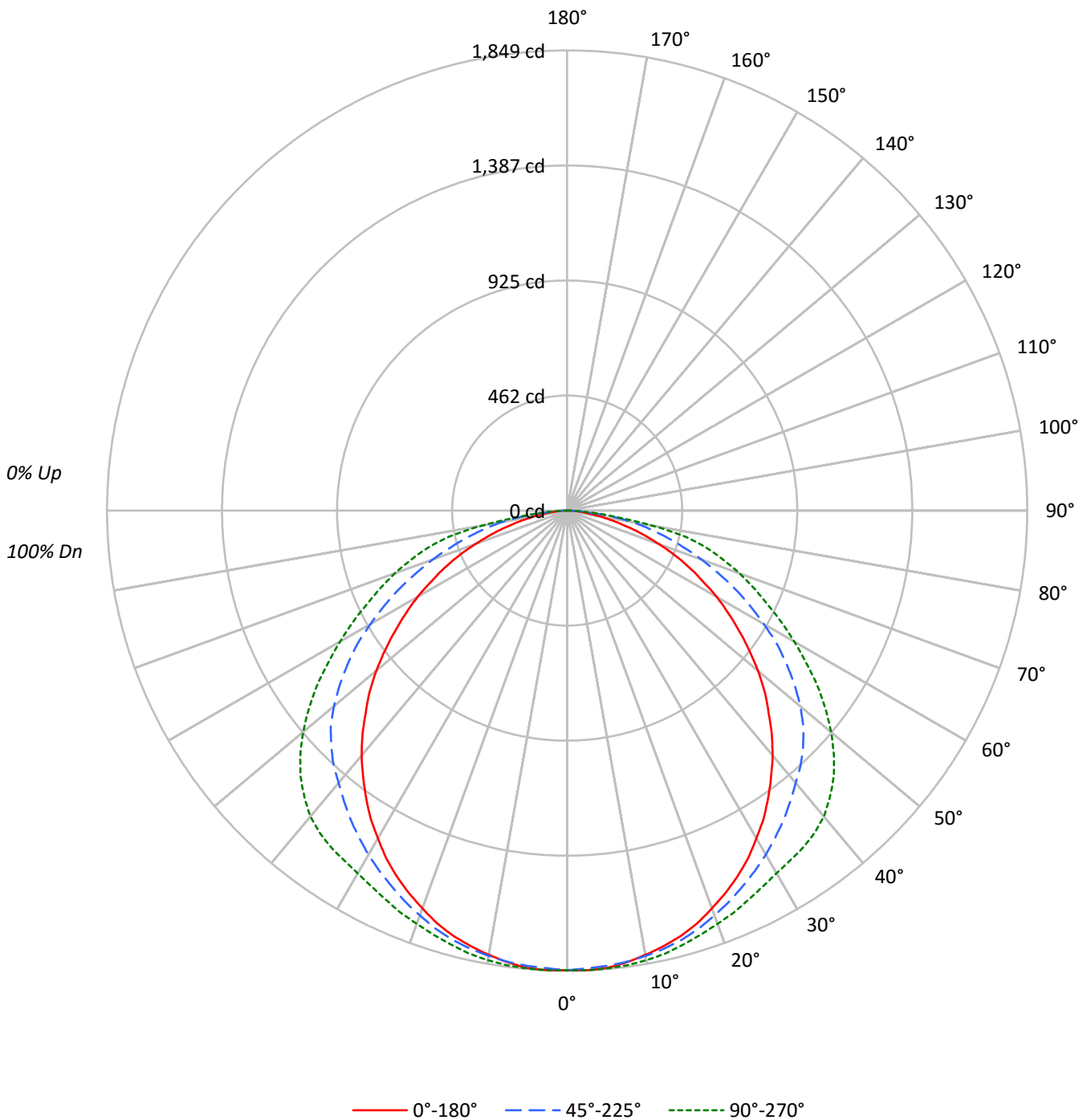
Input Watts (W): 59.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2485	2485	2485
5°	2492	2481	2494
10°	2477	2482	2507
15°	2464	2486	2514
20°	2435	2478	2530
25°	2406	2474	2560
30°	2362	2481	2614
35°	2314	2491	2715
40°	2256	2509	2818
45°	2178	2551	2882
50°	2094	2559	2898
55°	1981	2525	2882
60°	1868	2455	2837
65°	1726	2370	2822
70°	1535	2259	2897
75°	1300	2143	3016
80°	1024	2077	2697
85°	741	1389	1544



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.2	3.1
10°-20°	504.4	8.9
20°-30°	771.3	13.7
30°-40°	953.9	16.9
40°-50°	1027.2	18.2
50°-60°	942.9	16.7
60°-70°	723.8	12.8
70°-80°	440.6	7.8
80°-90°	110.0	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°	1450.9	25.7
0°-40°	2404.8	42.6
0°-60°	4374.9	77.4
0°-90°	5649.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5649.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1847	1847	1847	1847	1847	
5°	1845	1841	1837	1845	1847	175
15°	1769	1773	1785	1803	1805	498
25°	1621	1639	1667	1713	1725	746
35°	1409	1435	1517	1613	1653	881
45°	1144	1192	1340	1471	1515	884
55°	844	912	1076	1192	1228	756
65°	542	614	744	850	886	536
75°	250	314	412	532	580	269
85°	48	76	90	94	100	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1846.7	1846.7	1846.7	1846.7	1846.7
2.5°	1848.7	1846.7	1840.7	1846.7	1848.7
5°	1844.7	1840.7	1836.7	1844.7	1846.7
7.5°	1830.7	1830.7	1828.7	1840.7	1842.7
10°	1812.7	1816.7	1816.7	1832.7	1834.7
12.5°	1792.7	1796.7	1802.7	1820.7	1822.7
15°	1768.7	1772.7	1784.7	1802.7	1804.7
17.5°	1738.7	1746.7	1760.7	1780.7	1786.7
20°	1700.7	1714.7	1730.7	1760.7	1766.7
22.5°	1662.7	1678.7	1700.7	1734.7	1748.7
25°	1620.7	1638.7	1666.7	1712.7	1724.7
27.5°	1574.6	1592.6	1632.7	1684.7	1702.7
30°	1520.6	1540.6	1596.6	1656.7	1682.7
32.5°	1468.6	1488.6	1556.6	1632.7	1666.7
35°	1408.6	1434.6	1516.6	1612.7	1652.7
37.5°	1346.5	1374.6	1472.6	1592.6	1632.7
40°	1284.5	1316.5	1428.6	1564.6	1604.6
42.5°	1216.5	1254.5	1388.6	1520.6	1562.6
45°	1144.5	1192.5	1340.5	1470.6	1514.6
47.5°	1076.4	1126.5	1288.5	1416.6	1454.6
50°	1000.4	1058.4	1222.5	1348.5	1384.6
52.5°	922.4	990.4	1152.5	1278.5	1308.5
55°	844.3	912.4	1076.4	1192.5	1228.5
57.5°	768.3	846.3	1000.4	1110.4	1138.5
60°	694.3	768.3	912.4	1020.4	1054.4
62.5°	614.2	694.3	828.3	936.4	970.4
65°	542.2	614.2	744.3	850.3	886.4
67.5°	468.2	536.2	656.3	764.3	810.3
70°	390.2	458.2	574.2	688.3	736.3
72.5°	320.1	382.2	490.2	612.2	658.3
75°	250.1	314.1	412.2	532.2	580.2
77.5°	188.1	246.1	338.1	452.2	490.2
80°	132.1	186.1	268.1	338.1	348.1
82.5°	86.0	130.1	176.1	196.1	198.1
85°	48.0	76.0	90.0	94.0	100.0
87.5°	20.0	26.0	34.0	36.0	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)