

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: P506685

Luminaire Tested: **24PD-50-PR1-L850**

Issue Date: 3/26/2021



**Test Information**

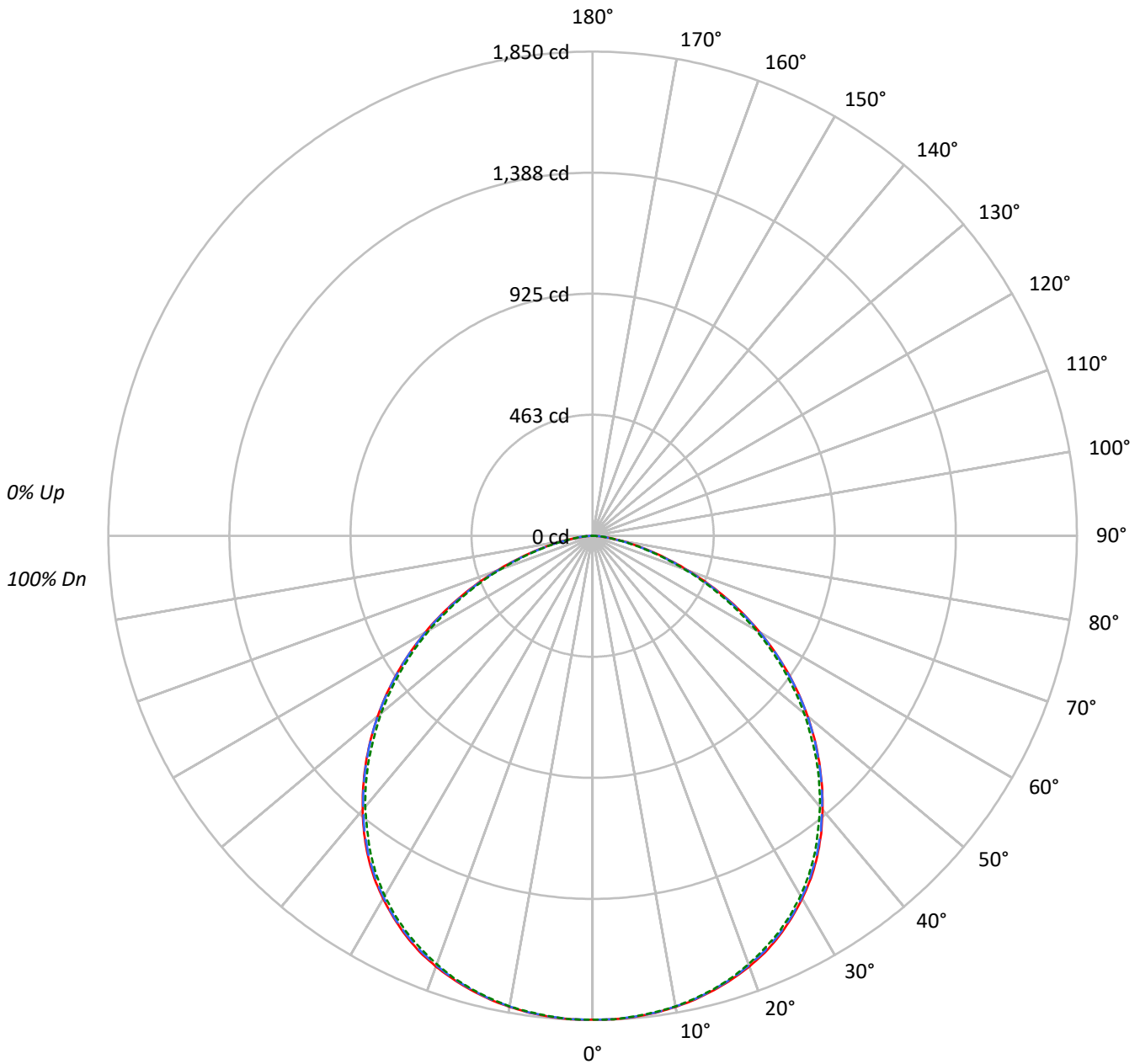
Test Method: LM-79-08  
Report Number: P506685  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-50-PR1-L850  
Description: 5000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4978.0 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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										
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								
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85								
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72								
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61								
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52								
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46								
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40								
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35								
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32								
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28								
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26								

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

	0°	45°	90°
0°	2488	2488	2488
5°	2492	2491	2490
10°	2497	2495	2494
15°	2502	2499	2496
20°	2507	2501	2494
25°	2505	2498	2487
30°	2488	2481	2468
35°	2457	2450	2430
40°	2400	2395	2374
45°	2330	2326	2300
50°	2243	2242	2208
55°	2133	2128	2088
60°	1988	1980	1935
65°	1791	1770	1729
70°	1529	1507	1469
75°	1209	1182	1155
80°	859	836	810
85°	516	502	486



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.5	3.5
10°-20°	506.7	10.2
20°-30°	774.6	15.6
30°-40°	930.2	18.7
40°-50°	940.0	18.9
50°-60°	807.7	16.2
60°-70°	551.0	11.1
70°-80°	247.7	5.0
80°-90°	44.6	0.9
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°	1456.8	29.3
0°-40°	2387.0	48.0
0°-60°	4134.7	83.1
0°-90°	4978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4978.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1849	1849	1849	1849	1849	
5°	1845	1845	1844	1843	1843	176
15°	1796	1796	1794	1793	1792	507
25°	1687	1687	1682	1677	1675	777
35°	1496	1496	1491	1482	1479	934
45°	1224	1228	1222	1214	1209	944
55°	909	913	907	899	890	811
65°	562	565	556	552	543	557
75°	233	234	227	226	222	252
85°	33	34	32	32	32	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1849.1	1849.1	1849.1	1849.1	1849.1
2.5°	1849.5	1849.1	1848.6	1847.6	1849.1
5°	1845.2	1844.8	1844.3	1843.3	1843.3
7.5°	1838.5	1837.6	1837.6	1836.2	1835.7
10°	1828.0	1827.6	1826.1	1826.1	1825.7
12.5°	1814.7	1813.7	1812.3	1811.8	1810.8
15°	1796.5	1796.0	1794.1	1792.7	1792.2
17.5°	1776.0	1774.6	1773.1	1769.8	1769.8
20°	1751.2	1750.2	1746.9	1743.5	1741.6
22.5°	1722.5	1720.6	1716.8	1713.4	1709.6
25°	1687.2	1686.7	1682.4	1676.7	1675.2
27.5°	1646.1	1647.1	1642.8	1637.0	1634.2
30°	1601.2	1603.1	1596.9	1589.7	1588.3
32.5°	1552.0	1552.5	1547.2	1539.6	1536.7
35°	1496.1	1496.1	1491.4	1482.3	1479.4
37.5°	1434.1	1433.6	1430.7	1420.2	1415.0
40°	1366.7	1369.1	1363.4	1353.8	1351.5
42.5°	1297.0	1299.9	1294.6	1286.5	1281.3
45°	1224.4	1227.8	1222.5	1213.9	1208.7
47.5°	1149.5	1151.8	1148.0	1137.0	1129.9
50°	1071.6	1076.4	1071.1	1059.7	1054.9
52.5°	991.4	996.6	990.4	981.8	972.8
55°	909.2	912.6	907.3	899.2	890.1
57.5°	824.7	831.4	822.8	813.3	805.6
60°	738.8	744.5	735.9	727.3	719.2
62.5°	651.4	655.2	645.6	640.4	630.8
65°	562.5	565.4	555.9	552.0	543.0
67.5°	474.7	477.1	468.0	462.7	457.5
70°	388.7	390.6	383.0	378.2	373.4
72.5°	307.5	308.0	300.9	299.4	293.7
75°	232.6	234.5	227.3	225.9	222.1
77.5°	167.1	167.6	162.8	161.9	158.5
80°	110.8	111.3	107.9	107.4	104.6
82.5°	66.9	67.3	64.5	64.5	62.6
85°	33.4	33.9	32.5	32.5	31.5
87.5°	11.5	11.9	11.5	11.5	11.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)