

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: P505992

Luminaire Tested: **14PD-50-PW1-L850**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P505992  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-50-PW1-L850  
Description: 5000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

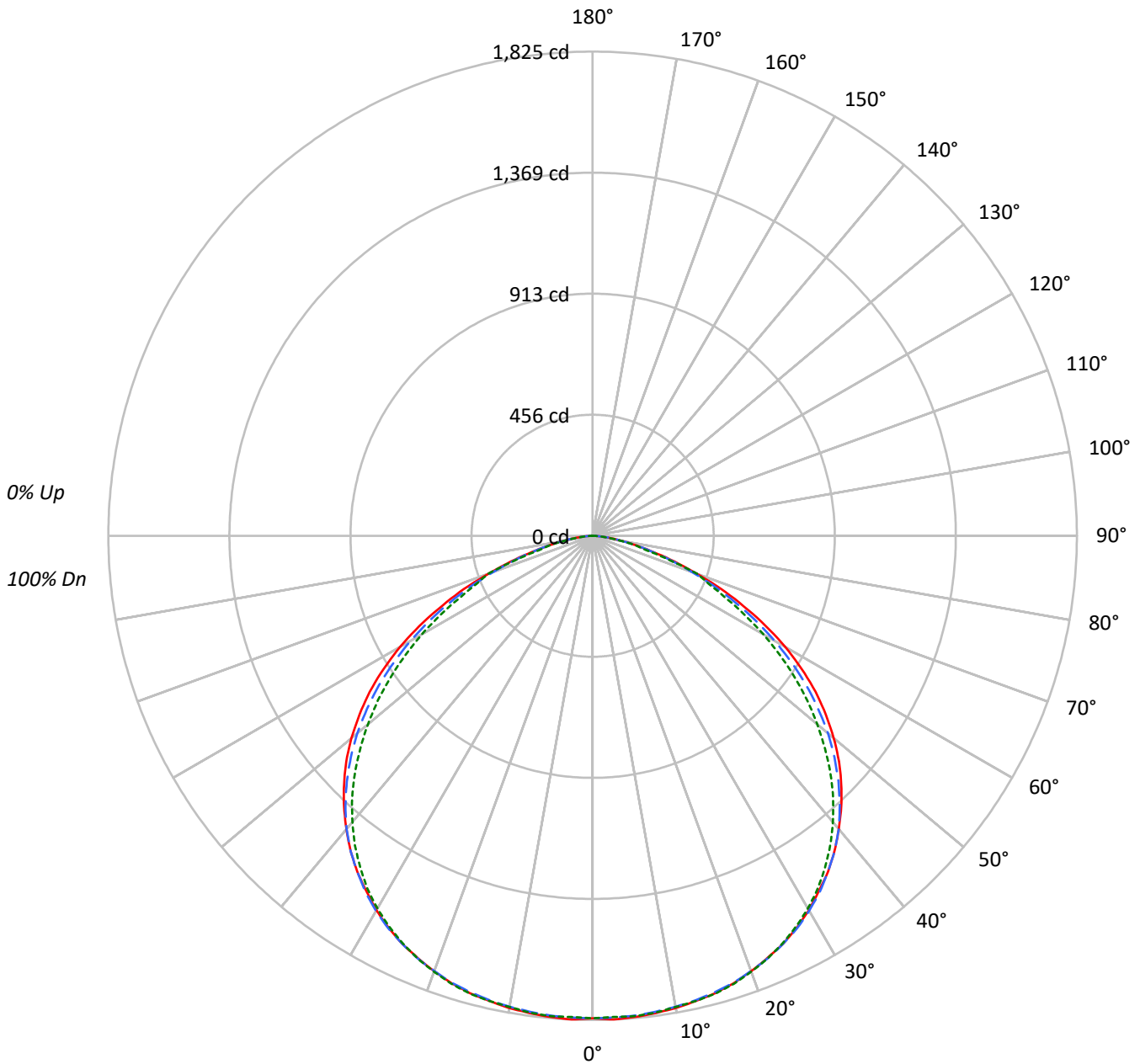
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5179.6 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.42  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 48.6  
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

TEST NUMBER: P505992  
CATALOG NUMBER: 14PD-50-PW1-L850

### Luminous Intensity Polar Plot





TEST NUMBER: P505992

CATALOG NUMBER: 14PD-50-PW1-L850

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	97	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	77	83	79	76	80	77	74	72																			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61																			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52																			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39																			
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35																			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

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

	0°	45°	90°
0°	4894	4894	4894
5°	4918	4904	4910
10°	4939	4925	4928
15°	4972	4961	4978
20°	5002	4999	5008
25°	5040	5040	5031
30°	5063	5073	5041
35°	5080	5080	5015
40°	5070	5067	4948
45°	5043	4985	4824
50°	4967	4846	4627
55°	4814	4611	4360
60°	4510	4260	3995
65°	3993	3764	3515
70°	3260	3114	3284
75°	2459	2415	2170
80°	1768	1657	1657
85°	1112	1047	920



TEST NUMBER: P505992

CATALOG NUMBER: 14PD-50-PW1-L850

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.9	3.3
10°-20°	503.4	9.7
20°-30°	781.5	15.1
30°-40°	962.6	18.6
40°-50°	1002.1	19.3
50°-60°	871.5	16.8
60°-70°	585.5	11.3
70°-80°	253.4	4.9
80°-90°	46.5	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°	1457.9	28.1
0°-40°	2420.5	46.7
0°-60°	4294.1	82.9
0°-90°	5179.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5179.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1819	1819	1819	1819	1819	
5°	1821	1809	1816	1820	1818	173
15°	1785	1772	1781	1787	1787	504
25°	1697	1689	1697	1697	1694	782
35°	1546	1542	1546	1533	1527	966
45°	1325	1321	1310	1280	1268	1021
55°	1026	1008	983	944	929	912
65°	627	616	591	563	552	621
75°	236	238	232	238	209	261
85°	36	37	34	30	30	48
90°	0	0	0	0	0	



TEST NUMBER: P505992

CATALOG NUMBER: 14PD-50-PW1-L850

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1818.7	1818.7	1818.7	1818.7	1818.7
2.5°	1824.9	1813.6	1817.7	1823.8	1815.6
5°	1820.8	1809.4	1815.6	1819.7	1817.7
7.5°	1814.6	1806.4	1809.4	1813.6	1812.5
10°	1807.4	1799.2	1802.3	1806.4	1803.3
12.5°	1796.1	1786.8	1793.0	1797.1	1796.1
15°	1784.8	1772.4	1780.7	1786.8	1786.8
17.5°	1768.3	1758.0	1766.3	1771.4	1770.4
20°	1746.7	1739.5	1745.7	1749.8	1748.8
22.5°	1722.1	1716.9	1724.1	1724.1	1724.1
25°	1697.4	1689.2	1697.4	1697.4	1694.3
27.5°	1665.5	1658.3	1668.6	1665.5	1660.4
30°	1629.5	1625.4	1632.6	1627.5	1622.3
32.5°	1587.4	1585.3	1592.5	1582.2	1578.1
35°	1546.3	1542.1	1546.3	1532.9	1526.7
37.5°	1497.9	1493.8	1497.9	1480.5	1471.2
40°	1443.4	1440.4	1442.4	1419.8	1408.5
42.5°	1386.9	1383.8	1378.7	1350.9	1341.7
45°	1325.2	1321.1	1309.8	1280.0	1267.6
47.5°	1259.4	1252.2	1235.8	1203.9	1187.5
50°	1186.4	1176.1	1157.6	1122.7	1105.2
52.5°	1107.3	1094.9	1071.3	1036.3	1019.9
55°	1026.0	1007.5	982.9	943.8	929.4
57.5°	933.5	914.0	888.3	852.3	835.8
60°	837.9	818.4	791.6	758.7	742.3
62.5°	736.1	718.6	691.9	661.1	646.7
65°	627.1	615.8	591.2	563.4	552.1
67.5°	524.3	513.0	492.5	468.8	472.9
70°	414.3	413.3	395.8	379.4	417.4
72.5°	322.8	320.8	311.5	303.3	301.2
75°	236.5	238.5	232.3	237.5	208.7
77.5°	166.6	168.6	167.6	153.2	160.4
80°	114.1	114.1	106.9	101.8	106.9
82.5°	68.9	82.2	74.0	60.7	58.6
85°	36.0	37.0	33.9	29.8	29.8
87.5°	13.4	15.4	13.4	12.3	11.3
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)