

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: P505983

Luminaire Tested: **14PD-50-PR1-L850**

Issue Date: 3/26/2021



**Test Information**

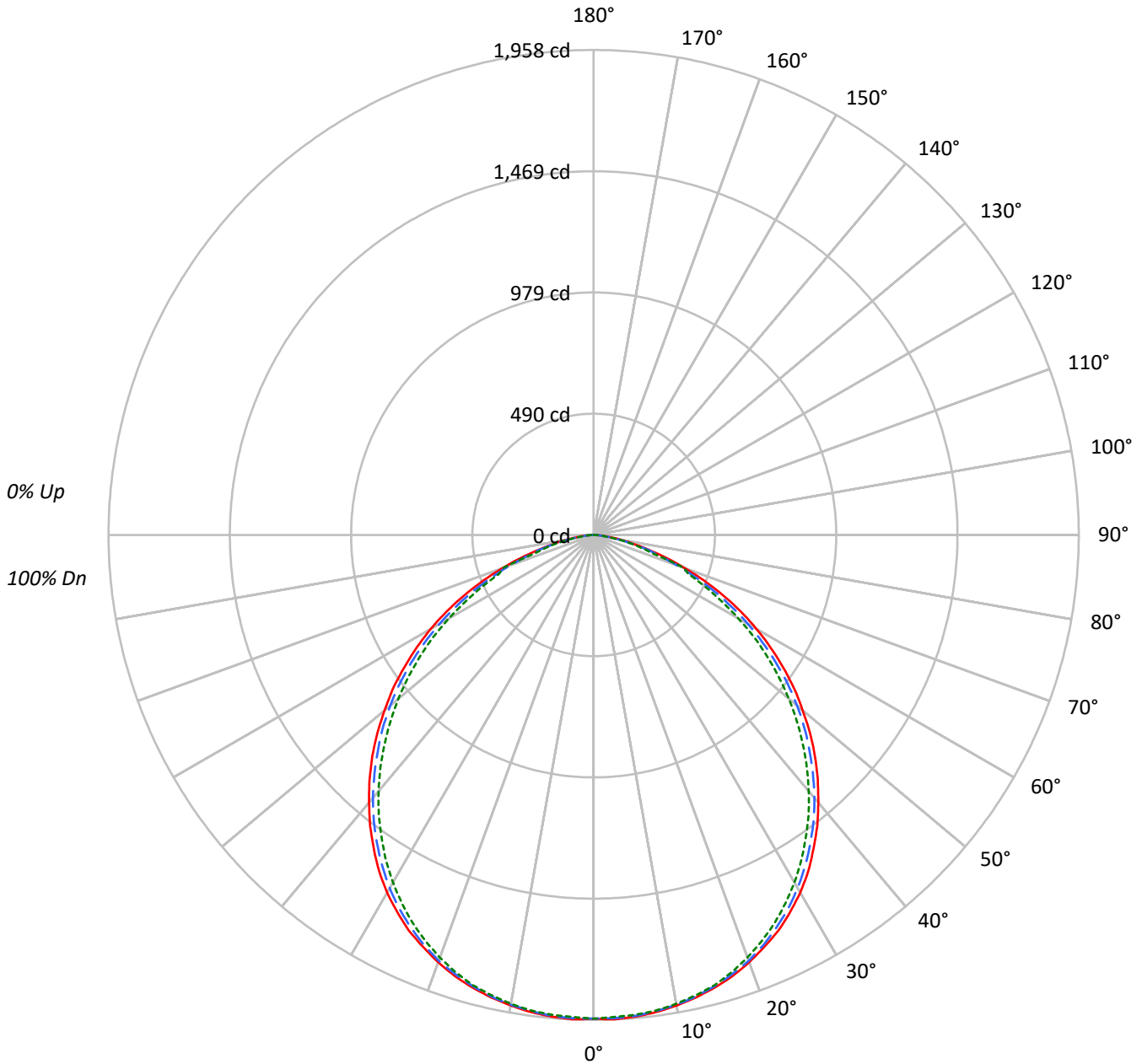
Test Method: LM-79-08  
Report Number: P505983  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-50-PR1-L850  
Description: 5000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5026.0 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34  
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: P505983  
CATALOG NUMBER: 14PD-50-PR1-L850

### Luminous Intensity Polar Plot





TEST NUMBER: P505983

CATALOG NUMBER: 14PD-50-PR1-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	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86																			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73																			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62																			
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53																			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46																			
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41																			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36																			
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32																			
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29																			
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26																			

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

	0°	45°	90°
0°	5255	5255	5255
5°	5273	5265	5252
10°	5273	5263	5252
15°	5271	5255	5244
20°	5257	5238	5199
25°	5236	5190	5133
30°	5182	5116	5034
35°	5081	5005	4903
40°	4954	4869	4743
45°	4808	4690	4542
50°	4608	4487	4304
55°	4384	4211	4012
60°	4082	3868	3629
65°	3664	3406	3184
70°	3083	2808	3037
75°	2374	2283	2051
80°	1709	1530	1454
85°	1047	895	806



TEST NUMBER: P505983

CATALOG NUMBER: 14PD-50-PR1-L850

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.1	3.7
10°-20°	531.8	10.6
20°-30°	803.3	16.0
30°-40°	950.4	18.9
40°-50°	947.6	18.9
50°-60°	800.5	15.9
60°-70°	533.4	10.6
70°-80°	231.7	4.6
80°-90°	42.0	0.8
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°	1520.3	30.2
0°-40°	2470.7	49.2
0°-60°	4218.8	83.9
0°-90°	5026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5026.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1953	1953	1953	1953	1953	
5°	1952	1944	1949	1947	1944	186
15°	1892	1883	1886	1883	1882	534
25°	1763	1752	1748	1732	1729	811
35°	1547	1536	1524	1503	1492	967
45°	1263	1252	1232	1206	1194	973
55°	934	928	898	869	855	834
65°	576	569	535	512	500	569
75°	228	223	220	212	197	249
85°	34	35	29	27	26	46
90°	0	0	0	0	0	



TEST NUMBER: P505983

CATALOG NUMBER: 14PD-50-PR1-L850

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1953.0	1953.0	1953.0	1953.0	1953.0
2.5°	1957.8	1949.1	1953.0	1953.0	1948.1
5°	1952.0	1944.3	1949.1	1947.2	1944.3
7.5°	1943.3	1935.6	1938.5	1937.5	1936.5
10°	1929.8	1922.0	1925.9	1923.9	1922.0
12.5°	1912.3	1904.6	1908.5	1905.6	1903.6
15°	1892.0	1883.3	1886.2	1883.3	1882.4
17.5°	1866.9	1858.2	1859.1	1855.3	1851.4
20°	1835.9	1828.2	1829.2	1819.5	1815.6
22.5°	1800.1	1792.4	1791.4	1778.9	1774.0
25°	1763.4	1751.8	1747.9	1732.4	1728.6
27.5°	1716.9	1706.3	1700.5	1684.1	1676.3
30°	1667.6	1656.0	1646.3	1628.0	1620.2
32.5°	1611.5	1599.9	1587.3	1568.0	1559.3
35°	1546.7	1536.1	1523.5	1503.2	1492.5
37.5°	1481.9	1470.3	1457.7	1433.5	1424.8
40°	1410.3	1399.7	1386.1	1360.0	1350.3
42.5°	1338.7	1326.2	1309.7	1284.6	1273.9
45°	1263.3	1251.7	1232.3	1206.2	1193.6
47.5°	1184.0	1174.3	1154.0	1125.9	1112.4
50°	1100.8	1093.0	1071.8	1040.8	1028.2
52.5°	1021.5	1010.8	986.6	955.7	942.1
55°	934.4	927.6	897.6	868.6	855.1
57.5°	847.3	838.6	808.7	779.6	767.1
60°	758.4	750.6	718.7	689.7	674.2
62.5°	668.4	659.7	625.8	599.7	585.2
65°	575.5	568.8	534.9	511.7	500.1
67.5°	482.7	477.8	442.1	422.7	414.0
70°	391.8	385.0	356.9	349.2	386.0
72.5°	307.6	298.9	274.7	262.1	252.5
75°	228.3	223.4	219.6	211.8	197.3
77.5°	160.6	159.6	146.1	135.4	146.1
80°	110.3	114.1	98.7	90.0	93.8
82.5°	67.7	75.4	59.0	52.2	50.3
85°	33.9	34.8	29.0	27.1	26.1
87.5°	12.6	14.5	12.6	10.6	10.6
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)