

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: P506154

Luminaire Tested: **14PD-80-PW1-L850**

Issue Date: 3/26/2021



**Test Information**

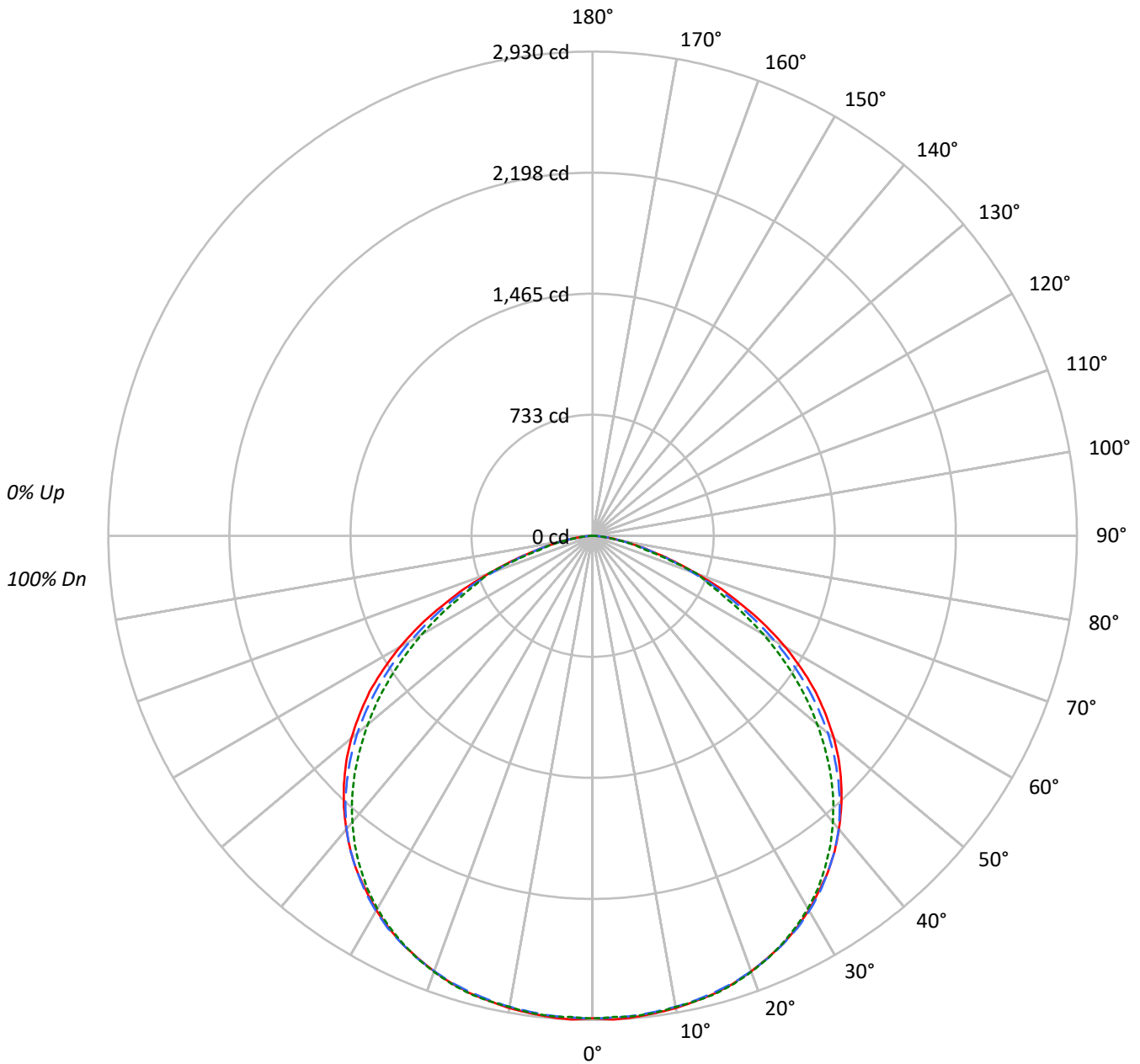
Test Method: LM-79-08  
Report Number: P506154  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-80-PW1-L850  
Description: 8000 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: 8317.1 lumens  
Efficiency: N/A  
Efficacy: 98.5 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): 84.4  
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				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	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°	7859	7859	7859
5°	7898	7875	7884
10°	7930	7908	7912
15°	7984	7966	7993
20°	8032	8027	8041
25°	8093	8093	8078
30°	8130	8146	8095
35°	8157	8157	8053
40°	8142	8136	7945
45°	8098	8004	7746
50°	7976	7782	7430
55°	7730	7404	7002
60°	7241	6842	6415
65°	6412	6044	5645
70°	5235	5001	5273
75°	3948	3879	3484
80°	2839	2661	2661
85°	1785	1683	1479



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.7	3.3
10°-20°	808.4	9.7
20°-30°	1255.0	15.1
30°-40°	1545.7	18.6
40°-50°	1609.2	19.3
50°-60°	1399.4	16.8
60°-70°	940.2	11.3
70°-80°	406.9	4.9
80°-90°	74.7	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°	2341.0	28.1
0°-40°	3886.7	46.7
0°-60°	6895.3	82.9
0°-90°	8317.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8317.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2920	2920	2920	2920	2920	
5°	2924	2906	2915	2922	2919	278
15°	2866	2846	2859	2869	2869	810
25°	2726	2712	2726	2726	2721	1256
35°	2483	2476	2483	2461	2452	1552
45°	2128	2121	2103	2055	2036	1639
55°	1648	1618	1578	1516	1492	1464
65°	1007	989	949	905	886	997
75°	380	383	373	381	335	419
85°	58	59	54	48	48	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2920.4	2920.4	2920.4	2920.4	2920.4
2.5°	2930.3	2912.1	2918.7	2928.6	2915.4
5°	2923.7	2905.5	2915.4	2922.0	2918.7
7.5°	2913.8	2900.6	2905.5	2912.1	2910.5
10°	2902.2	2889.0	2894.0	2900.6	2895.6
12.5°	2884.1	2869.2	2879.1	2885.7	2884.1
15°	2865.9	2846.1	2859.3	2869.2	2869.2
17.5°	2839.5	2823.0	2836.2	2844.4	2842.8
20°	2804.8	2793.3	2803.2	2809.8	2808.1
22.5°	2765.2	2756.9	2768.5	2768.5	2768.5
25°	2725.6	2712.4	2725.6	2725.6	2720.6
27.5°	2674.4	2662.8	2679.3	2674.4	2666.1
30°	2616.6	2610.0	2621.6	2613.3	2605.1
32.5°	2548.9	2545.6	2557.2	2540.7	2534.1
35°	2482.9	2476.3	2482.9	2461.4	2451.5
37.5°	2405.3	2398.7	2405.3	2377.2	2362.4
40°	2317.8	2312.9	2316.2	2279.8	2261.7
42.5°	2227.0	2222.1	2213.8	2169.2	2154.4
45°	2128.0	2121.4	2103.2	2055.3	2035.5
47.5°	2022.3	2010.7	1984.3	1933.2	1906.7
50°	1905.1	1888.6	1858.9	1802.7	1774.7
52.5°	1778.0	1758.2	1720.2	1664.1	1637.7
55°	1647.6	1617.8	1578.2	1515.5	1492.4
57.5°	1499.0	1467.6	1426.3	1368.6	1342.1
60°	1345.4	1314.1	1271.2	1218.3	1191.9
62.5°	1182.0	1154.0	1111.0	1061.5	1038.4
65°	1007.0	988.9	949.2	904.7	886.5
67.5°	841.9	823.8	790.8	752.8	759.4
70°	665.3	663.6	635.6	609.2	670.2
72.5°	518.4	515.1	500.2	487.0	483.7
75°	379.7	383.0	373.1	381.3	335.1
77.5°	267.4	270.7	269.1	246.0	257.5
80°	183.2	183.2	171.7	163.4	171.7
82.5°	110.6	132.1	118.9	97.4	94.1
85°	57.8	59.4	54.5	47.9	47.9
87.5°	21.5	24.8	21.5	19.8	18.2
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)