

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: P506181

Luminaire Tested: **22PD-20-PW1-L850**

Issue Date: 3/26/2021

**Test Information**

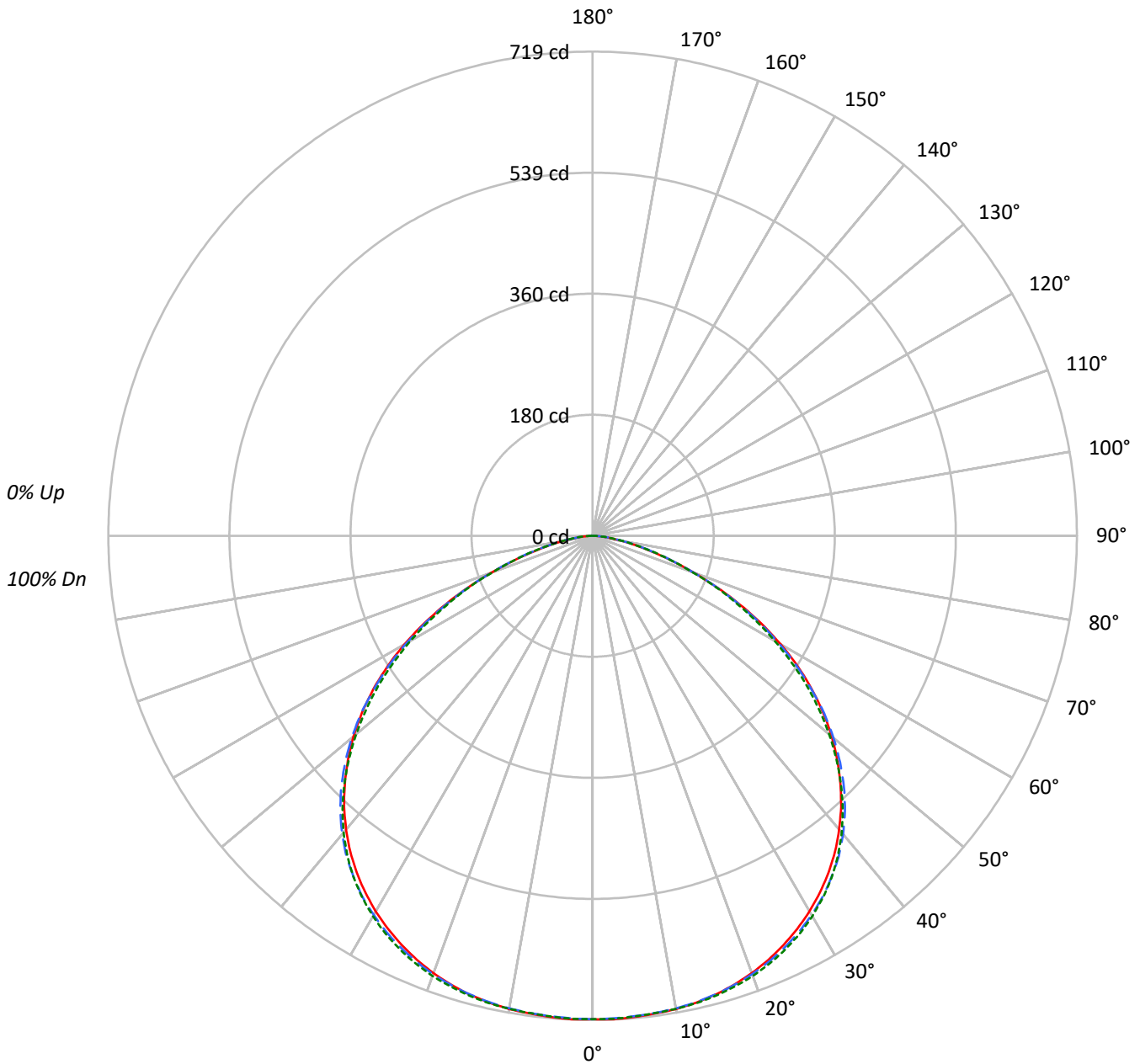
Test Method: LM-79-08  
Report Number: P506181  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-20-PW1-L850  
Description: 2000 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2075.3 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.1  
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				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				100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72				72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61				61
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52				52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45				45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39				39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35				35
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28				28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				25

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

	0°	45°	90°
0°	1932	1932	1932
5°	1937	1934	1935
10°	1950	1947	1949
15°	1965	1964	1970
20°	1979	1984	1992
25°	1991	2003	2012
30°	2001	2020	2027
35°	2006	2032	2033
40°	2000	2033	2021
45°	1980	2009	1984
50°	1940	1954	1919
55°	1865	1856	1821
60°	1736	1716	1681
65°	1531	1516	1487
70°	1253	1260	1234
75°	949	981	974
80°	688	716	704
85°	451	466	500



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.3	3.3
10°-20°	199.4	9.6
20°-30°	310.9	15.0
30°-40°	385.3	18.6
40°-50°	403.2	19.4
50°-60°	351.3	16.9
60°-70°	235.3	11.3
70°-80°	102.0	4.9
80°-90°	19.6	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°	578.5	27.9
0°-40°	963.8	46.4
0°-60°	1718.3	82.8
0°-90°	2075.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2075.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	718	718	718	718	718	
5°	717	716	716	716	716	68
15°	705	704	705	706	707	199
25°	671	671	675	677	678	309
35°	611	613	619	619	619	382
45°	520	523	528	523	521	401
55°	398	397	396	391	388	354
65°	240	239	238	236	234	238
75°	91	93	94	94	94	101
85°	15	16	15	15	16	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	717.9	717.9	717.9	717.9	717.9
2.5°	718.7	717.4	717.2	717.2	717.9
5°	717.2	716.4	716.1	715.9	716.4
7.5°	715.6	714.6	714.8	714.3	714.8
10°	713.6	712.5	712.5	712.5	713.3
12.5°	710.0	709.2	709.5	710.0	711.0
15°	705.4	704.3	705.1	705.9	707.1
17.5°	698.9	698.2	699.5	700.7	701.8
20°	691.2	690.5	692.8	694.6	695.6
22.5°	681.7	681.5	684.6	686.6	687.4
25°	670.7	671.0	674.6	676.6	677.6
27.5°	658.1	658.7	663.3	665.1	666.1
30°	644.0	645.3	650.2	651.7	652.5
32.5°	628.1	629.9	635.8	636.8	636.8
35°	610.7	613.0	618.6	619.4	618.9
37.5°	591.2	593.7	600.2	599.1	598.4
40°	569.4	572.2	578.6	576.5	575.3
42.5°	546.0	548.8	554.5	551.4	549.6
45°	520.4	523.2	527.8	523.4	521.4
47.5°	492.6	496.0	498.3	493.4	490.8
50°	463.4	464.4	466.7	461.1	458.3
52.5°	431.6	431.6	433.4	427.2	423.9
55°	397.5	397.2	395.7	391.3	388.2
57.5°	361.3	359.7	358.7	354.1	350.5
60°	322.5	320.2	318.9	315.1	312.3
62.5°	282.0	280.7	279.2	276.1	273.0
65°	240.4	239.1	238.1	235.8	233.5
67.5°	199.1	198.3	198.3	196.8	196.5
70°	159.3	159.9	160.1	160.1	156.8
72.5°	123.4	123.7	125.0	123.9	123.7
75°	91.3	92.9	94.4	93.7	93.7
77.5°	65.7	68.0	68.0	67.5	66.7
80°	44.4	45.4	46.2	45.9	45.4
82.5°	28.2	29.0	28.2	28.7	29.0
85°	14.6	15.7	15.1	15.4	16.2
87.5°	4.9	5.4	5.6	5.4	5.4
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)