

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: P505830

Luminaire Tested: **14PD-20-PW1-L850**

Issue Date: 3/26/2021



**Test Information**

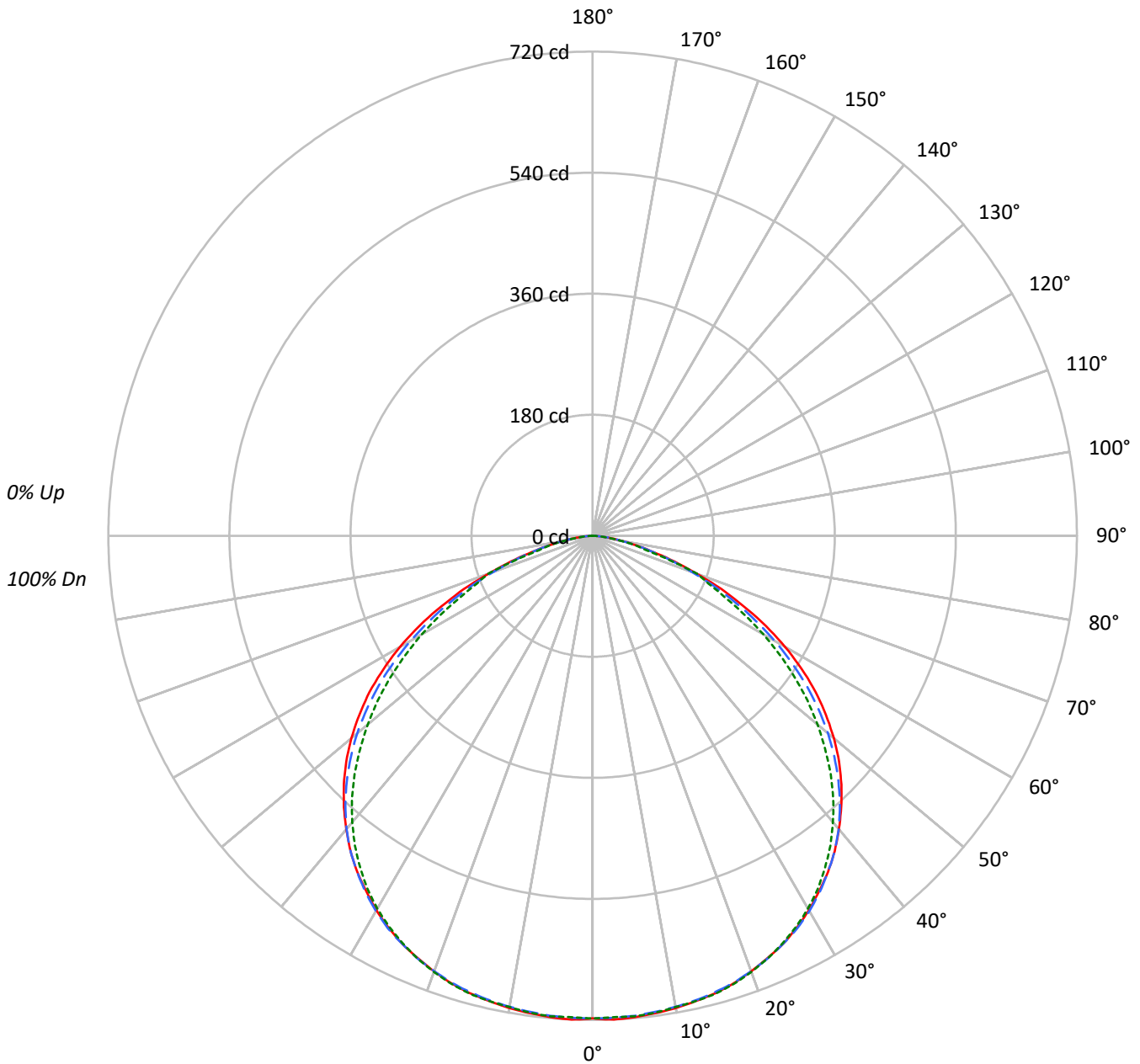
Test Method: LM-79-08  
Report Number: P505830  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-20-PW1-L850  
Description: 2000 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: 2044.1 lumens  
Efficiency: N/A  
Efficacy: 117.5 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): 17.4  
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°	1931	1931	1931
5°	1941	1935	1938
10°	1949	1944	1945
15°	1962	1958	1965
20°	1974	1973	1977
25°	1989	1989	1985
30°	1998	2002	1989
35°	2005	2005	1979
40°	2001	1999	1953
45°	1990	1967	1904
50°	1960	1913	1826
55°	1900	1820	1721
60°	1780	1681	1576
65°	1576	1486	1387
70°	1286	1229	1296
75°	970	953	857
80°	697	654	654
85°	438	414	364



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.2	3.3
10°-20°	198.7	9.7
20°-30°	308.4	15.1
30°-40°	379.9	18.6
40°-50°	395.5	19.3
50°-60°	344.0	16.8
60°-70°	231.1	11.3
70°-80°	100.0	4.9
80°-90°	18.4	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°	575.4	28.1
0°-40°	955.2	46.7
0°-60°	1694.7	82.9
0°-90°	2044.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2044.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	718	718	718	718	718	
5°	719	714	716	718	717	68
15°	704	700	703	705	705	199
25°	670	667	670	670	669	309
35°	610	609	610	605	602	381
45°	523	521	517	505	500	403
55°	405	398	388	372	367	360
65°	248	243	233	222	218	245
75°	93	94	92	94	82	103
85°	14	15	13	12	12	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	717.7	717.7	717.7	717.7	717.7
2.5°	720.2	715.7	717.3	719.8	716.5
5°	718.6	714.1	716.5	718.1	717.3
7.5°	716.1	712.9	714.1	715.7	715.3
10°	713.3	710.0	711.3	712.9	711.7
12.5°	708.8	705.2	707.6	709.2	708.8
15°	704.4	699.5	702.7	705.2	705.2
17.5°	697.9	693.8	697.0	699.1	698.7
20°	689.3	686.5	688.9	690.6	690.2
22.5°	679.6	677.6	680.4	680.4	680.4
25°	669.9	666.6	669.9	669.9	668.6
27.5°	657.3	654.4	658.5	657.3	655.3
30°	643.1	641.5	644.3	642.3	640.2
32.5°	626.5	625.6	628.5	624.4	622.8
35°	610.2	608.6	610.2	604.9	602.5
37.5°	591.2	589.5	591.2	584.3	580.6
40°	569.6	568.4	569.2	560.3	555.9
42.5°	547.3	546.1	544.1	533.1	529.5
45°	523.0	521.4	516.9	505.1	500.3
47.5°	497.0	494.2	487.7	475.1	468.6
50°	468.2	464.2	456.9	443.1	436.2
52.5°	437.0	432.1	422.8	409.0	402.5
55°	404.9	397.6	387.9	372.5	366.8
57.5°	368.4	360.7	350.6	336.4	329.9
60°	330.7	323.0	312.4	299.4	292.9
62.5°	290.5	283.6	273.1	260.9	255.2
65°	247.5	243.0	233.3	222.3	217.9
67.5°	206.9	202.5	194.3	185.0	186.6
70°	163.5	163.1	156.2	149.7	164.7
72.5°	127.4	126.6	122.9	119.7	118.9
75°	93.3	94.1	91.7	93.7	82.4
77.5°	65.7	66.5	66.1	60.5	63.3
80°	45.0	45.0	42.2	40.2	42.2
82.5°	27.2	32.5	29.2	23.9	23.1
85°	14.2	14.6	13.4	11.8	11.8
87.5°	5.3	6.1	5.3	4.9	4.5
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)