

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: P506451

Luminaire Tested: **22PD-70-PW1-L850**

Issue Date: 3/26/2021



**Test Information**

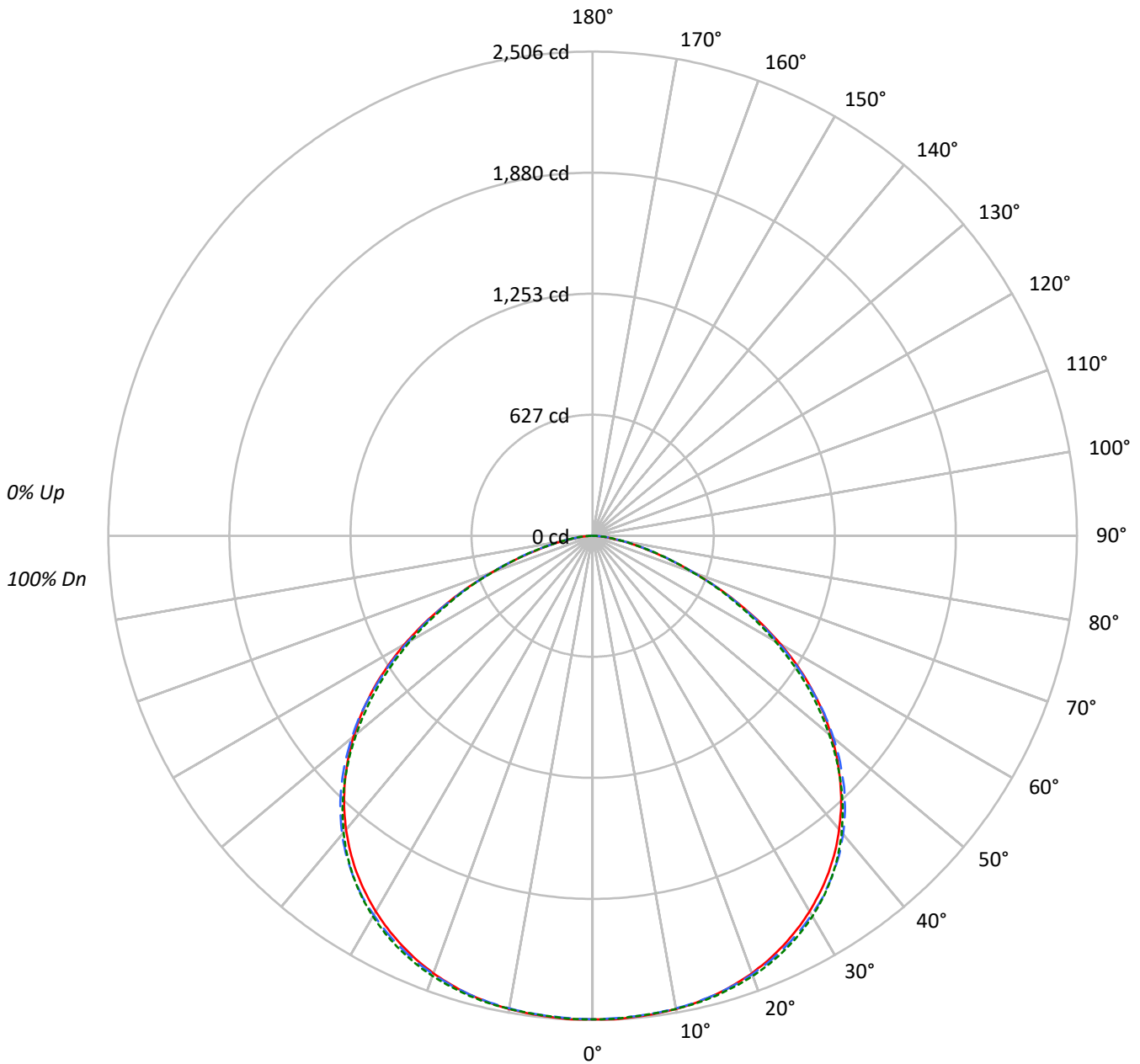
Test Method: LM-79-08  
Report Number: P506451  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-70-PW1-L850  
Description: 7000 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: 7234.8 lumens  
Efficiency: N/A  
Efficacy: 113.2 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): 63.9  
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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85								
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72								
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61								
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52								
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45								
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39								
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35								
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31								
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28								
10	53	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°	6735	6735	6735
5°	6753	6744	6746
10°	6797	6788	6795
15°	6851	6848	6868
20°	6901	6916	6944
25°	6943	6983	7014
30°	6976	7043	7068
35°	6994	7085	7088
40°	6973	7086	7045
45°	6904	7002	6917
50°	6763	6812	6688
55°	6501	6471	6350
60°	6051	5984	5859
65°	5337	5286	5183
70°	4371	4392	4300
75°	3310	3423	3395
80°	2397	2495	2453
85°	1575	1630	1741



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.0	3.3
10°-20°	695.1	9.6
20°-30°	1083.7	15.0
30°-40°	1343.2	18.6
40°-50°	1405.5	19.4
50°-60°	1224.8	16.9
60°-70°	820.5	11.3
70°-80°	355.6	4.9
80°-90°	68.5	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°	2016.8	27.9
0°-40°	3360.0	46.4
0°-60°	5990.2	82.8
0°-90°	7234.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7234.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2503	2503	2503	2503	2503	
5°	2500	2498	2497	2496	2498	238
15°	2459	2455	2458	2461	2465	695
25°	2338	2339	2352	2359	2362	1078
35°	2129	2137	2157	2159	2158	1331
45°	1814	1824	1840	1825	1818	1397
55°	1386	1385	1379	1364	1353	1234
65°	838	834	830	822	814	829
75°	318	324	329	326	326	351
85°	51	55	53	54	56	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2502.8	2502.8	2502.8	2502.8	2502.8
2.5°	2505.5	2501.0	2500.1	2500.1	2502.8
5°	2500.1	2497.5	2496.6	2495.7	2497.5
7.5°	2494.8	2491.2	2492.1	2490.3	2492.1
10°	2487.6	2484.0	2484.0	2484.0	2486.7
12.5°	2475.1	2472.4	2473.3	2475.1	2478.7
15°	2459.0	2455.4	2458.1	2460.8	2465.3
17.5°	2436.6	2434.0	2438.4	2442.9	2446.5
20°	2409.8	2407.1	2415.2	2421.4	2425.0
22.5°	2376.7	2375.8	2386.5	2393.7	2396.4
25°	2338.2	2339.1	2351.7	2358.8	2362.4
27.5°	2294.4	2296.2	2312.3	2318.6	2322.1
30°	2245.2	2249.7	2266.7	2272.0	2274.7
32.5°	2189.8	2196.0	2216.6	2220.2	2220.2
35°	2128.9	2137.0	2156.7	2159.3	2157.6
37.5°	2060.9	2069.9	2092.3	2088.7	2086.0
40°	1984.9	1994.7	2017.1	2010.0	2005.5
42.5°	1903.5	1913.3	1933.0	1922.3	1916.0
45°	1814.1	1823.9	1840.0	1824.8	1817.6
47.5°	1717.5	1729.1	1737.1	1720.1	1711.2
50°	1615.5	1619.1	1627.1	1607.4	1597.6
52.5°	1504.6	1504.6	1510.8	1489.4	1477.7
55°	1385.6	1384.7	1379.3	1364.1	1353.4
57.5°	1259.5	1254.1	1250.5	1234.4	1221.9
60°	1124.4	1116.3	1111.9	1098.5	1088.6
62.5°	983.1	978.6	973.2	962.5	951.8
65°	838.2	833.7	830.1	822.1	814.0
67.5°	694.1	691.5	691.5	686.1	685.2
70°	555.5	557.3	558.2	558.2	546.5
72.5°	430.3	431.2	435.6	432.0	431.2
75°	318.4	323.8	329.2	326.5	326.5
77.5°	229.0	237.0	237.0	235.3	232.6
80°	154.7	158.3	161.0	160.1	158.3
82.5°	98.4	101.1	98.4	100.2	101.1
85°	51.0	54.6	52.8	53.7	56.4
87.5°	17.0	18.8	19.7	18.8	18.8
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)