

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: P506433

Luminaire Tested: **22PD-70-PL1-L850**

Issue Date: 3/26/2021



**Test Information**

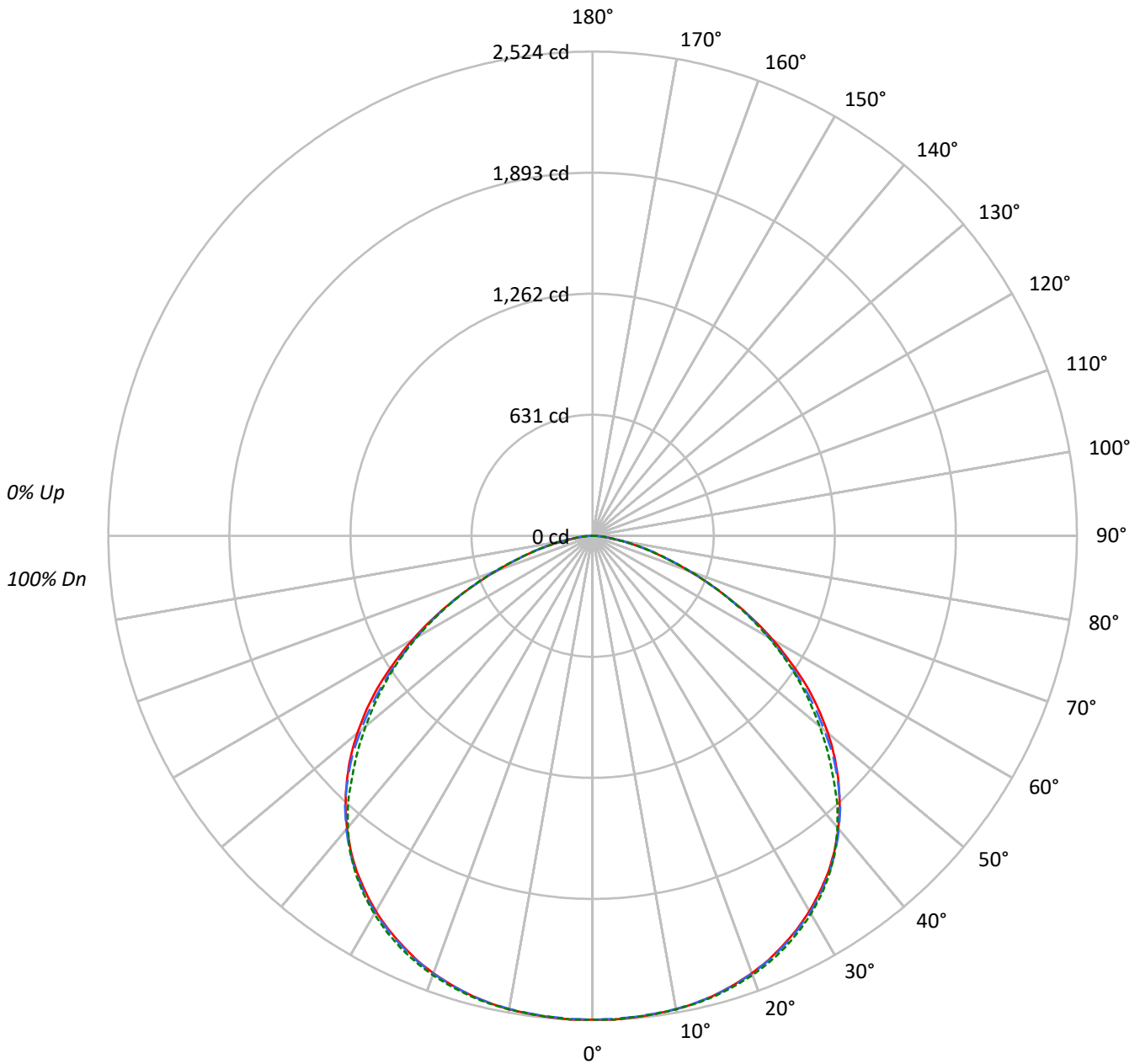
Test Method: LM-79-08  
Report Number: P506433  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-70-PL1-L850  
Description: 7000 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7145.5 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.33 / 1.42  
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

TEST NUMBER: P506433  
CATALOG NUMBER: 22PD-70-PL1-L850

### Luminous Intensity Polar Plot





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**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	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	84	79	76	81	77	74	72																			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61																			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52																			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40																			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35																			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	37	33	31																			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28																			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25																			

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

	0°	45°	90°
0°	6789	6789	6789
5°	6807	6800	6803
10°	6850	6842	6850
15°	6899	6899	6914
20°	6950	6957	6980
25°	6987	7002	7037
30°	7022	7044	7072
35°	7033	7056	7070
40°	6996	7015	6971
45°	6896	6876	6737
50°	6701	6597	6463
55°	6376	6214	6143
60°	5837	5727	5694
65°	5091	5079	5062
70°	4172	4242	4228
75°	3306	3361	3306
80°	2422	2408	2396
85°	1618	1590	1701



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.9	3.4
10°-20°	700.0	9.8
20°-30°	1088.0	15.2
30°-40°	1341.3	18.8
40°-50°	1385.4	19.4
50°-60°	1185.4	16.6
60°-70°	791.2	11.1
70°-80°	347.2	4.9
80°-90°	67.1	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°	2027.8	28.4
0°-40°	3369.1	47.2
0°-60°	5940.0	83.1
0°-90°	7145.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7145.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2523	2523	2523	2523	2523	
5°	2520	2516	2517	2516	2518	240
15°	2476	2474	2476	2478	2482	700
25°	2353	2353	2358	2366	2370	1085
35°	2141	2141	2148	2152	2152	1338
45°	1812	1811	1807	1790	1770	1395
55°	1359	1342	1324	1317	1309	1208
65°	800	798	798	800	795	793
75°	318	315	323	322	318	345
85°	52	52	52	53	55	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2522.7	2522.7	2522.7	2522.7	2522.7
2.5°	2524.5	2520.9	2520.1	2520.1	2524.5
5°	2520.1	2516.5	2517.4	2515.6	2518.3
7.5°	2513.8	2510.3	2511.2	2510.3	2513.8
10°	2506.7	2503.2	2504.1	2503.2	2506.7
12.5°	2494.3	2491.6	2493.4	2494.3	2497.0
15°	2476.5	2473.9	2476.5	2478.3	2481.9
17.5°	2453.4	2451.7	2454.3	2457.0	2461.4
20°	2426.8	2425.0	2429.4	2432.1	2437.4
22.5°	2393.9	2392.1	2396.6	2402.8	2406.4
25°	2353.1	2353.1	2358.4	2365.5	2369.9
27.5°	2309.5	2308.6	2314.9	2322.0	2326.4
30°	2259.8	2258.0	2266.9	2273.1	2275.8
32.5°	2202.0	2202.9	2210.9	2217.1	2218.0
35°	2140.8	2140.8	2147.9	2152.3	2152.3
37.5°	2070.6	2069.7	2076.8	2078.6	2075.9
40°	1991.5	1992.4	1996.9	1996.0	1984.4
42.5°	1906.3	1907.1	1910.7	1898.3	1886.7
45°	1812.1	1811.2	1806.8	1789.9	1770.3
47.5°	1711.7	1707.3	1700.2	1674.4	1660.2
50°	1600.7	1593.6	1575.8	1555.4	1543.8
52.5°	1483.4	1471.0	1453.2	1437.2	1427.5
55°	1359.1	1342.2	1324.4	1317.3	1309.3
57.5°	1220.5	1209.8	1194.7	1191.2	1185.9
60°	1084.6	1073.0	1064.2	1064.2	1057.9
62.5°	942.5	935.4	931.8	933.6	927.4
65°	799.5	797.7	797.7	800.3	795.0
67.5°	660.9	664.4	663.5	672.4	665.3
70°	530.3	536.5	539.2	548.1	537.4
72.5°	417.5	418.4	421.9	424.6	419.3
75°	318.0	315.3	323.3	321.6	318.0
77.5°	230.1	228.3	231.0	232.7	228.3
80°	156.3	154.6	155.4	158.1	154.6
82.5°	98.6	96.8	96.8	99.5	98.6
85°	52.4	51.5	51.5	53.3	55.1
87.5°	18.7	17.8	18.7	18.7	18.7
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)