

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: P506784

Luminaire Tested: **24PD-70-PL1-L850**

Issue Date: 3/26/2021



**Test Information**

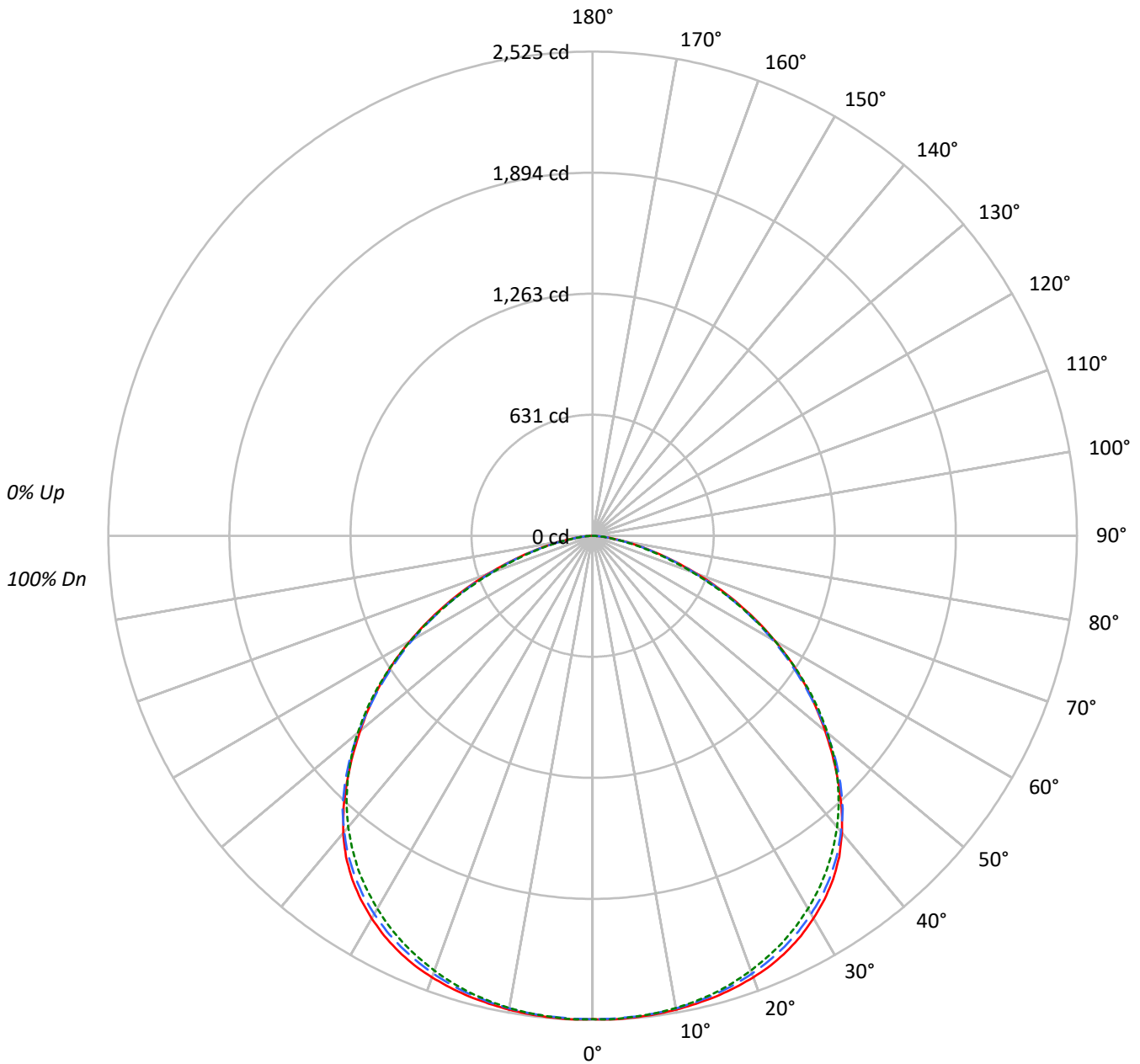
Test Method: LM-79-08  
Report Number: P506784  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-70-PL1-L850  
Description: 7000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7232.5 lumens  
Efficiency: N/A  
Efficacy: 140.4 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 51.5  
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									
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	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	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	48	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	33	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	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°	3392	3392	3392
5°	3405	3400	3400
10°	3429	3419	3416
15°	3465	3447	3437
20°	3508	3480	3455
25°	3551	3511	3475
30°	3579	3538	3489
35°	3591	3555	3496
40°	3553	3540	3482
45°	3444	3476	3438
50°	3311	3335	3347
55°	3168	3143	3190
60°	2963	2915	2952
65°	2666	2613	2611
70°	2270	2219	2167
75°	1787	1748	1676
80°	1278	1241	1172
85°	756	746	693



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.9	3.3
10°-20°	699.8	9.7
20°-30°	1090.9	15.1
30°-40°	1349.9	18.7
40°-50°	1399.4	19.3
50°-60°	1204.9	16.7
60°-70°	817.5	11.3
70°-80°	364.8	5.0
80°-90°	65.6	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°	2030.6	28.1
0°-40°	3380.4	46.7
0°-60°	5984.7	82.7
0°-90°	7232.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7232.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2521	2521	2521	2521	2521	
5°	2521	2518	2517	2517	2518	240
15°	2487	2480	2475	2469	2467	703
25°	2392	2383	2365	2348	2341	1103
35°	2186	2180	2164	2141	2128	1365
45°	1810	1818	1827	1820	1807	1395
55°	1350	1351	1340	1355	1360	1204
65°	837	841	821	812	820	828
75°	344	347	336	329	322	373
85°	49	50	48	48	45	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2521.2	2521.2	2521.2	2521.2	2521.2
2.5°	2524.6	2519.1	2519.8	2520.5	2523.3
5°	2521.2	2517.7	2517.0	2517.0	2517.7
7.5°	2517.0	2512.9	2512.2	2511.5	2511.5
10°	2509.5	2505.3	2502.5	2501.2	2500.5
12.5°	2499.1	2494.3	2490.8	2488.0	2486.0
15°	2487.4	2480.5	2474.9	2469.4	2467.3
17.5°	2470.8	2464.6	2454.9	2445.9	2442.5
20°	2450.1	2443.9	2430.1	2417.6	2412.8
22.5°	2425.9	2416.9	2399.7	2385.9	2379.0
25°	2392.1	2383.1	2365.2	2347.9	2341.0
27.5°	2352.7	2344.5	2325.1	2304.4	2296.1
30°	2303.7	2298.2	2277.5	2254.7	2245.7
32.5°	2249.2	2243.7	2225.7	2200.2	2189.8
35°	2186.4	2180.1	2164.3	2140.8	2128.4
37.5°	2111.8	2109.7	2094.5	2070.4	2058.6
40°	2022.7	2026.9	2015.2	1994.4	1982.7
42.5°	1921.3	1930.2	1930.2	1910.9	1899.2
45°	1810.1	1818.4	1826.7	1819.8	1806.7
47.5°	1696.2	1705.2	1714.8	1717.6	1706.6
50°	1581.6	1587.1	1593.3	1605.8	1598.9
52.5°	1467.7	1469.8	1467.7	1484.3	1482.9
55°	1350.3	1351.0	1340.0	1355.2	1360.0
57.5°	1228.1	1230.2	1212.3	1220.6	1230.9
60°	1101.1	1103.2	1083.2	1084.6	1097.0
62.5°	970.0	972.7	952.7	947.9	958.9
65°	837.4	840.9	820.8	811.9	820.1
67.5°	705.5	709.7	691.0	680.0	682.1
70°	577.1	580.6	564.0	553.7	550.9
72.5°	454.9	458.4	445.3	434.9	430.1
75°	343.8	346.6	336.2	328.6	322.4
77.5°	247.1	249.2	240.9	235.4	229.2
80°	165.0	165.7	160.2	156.7	151.2
82.5°	98.7	99.4	96.0	94.6	90.4
85°	49.0	49.7	48.3	48.3	44.9
87.5°	17.3	16.6	17.3	17.3	15.2
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)