

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: P506676

Luminaire Tested: **24PD-50-PL1-L850**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506676  
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-50-PL1-L850  
Description: 5000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

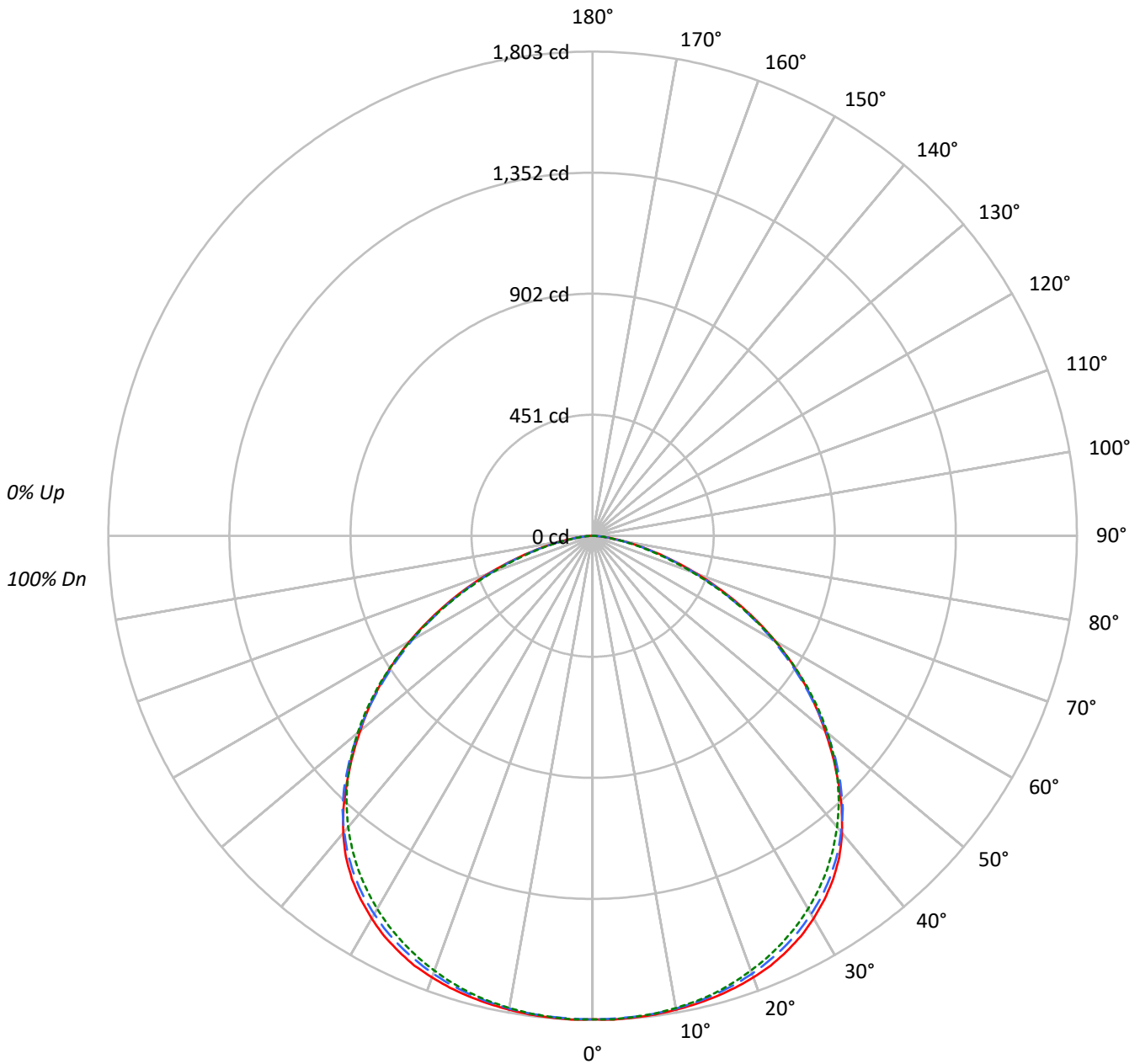
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5165.8 lumens  
Efficiency: N/A  
Efficacy: 139.2 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): 37.1  
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									
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°	2423	2423	2423
5°	2432	2428	2429
10°	2449	2442	2440
15°	2475	2462	2455
20°	2506	2485	2467
25°	2536	2508	2482
30°	2556	2527	2492
35°	2565	2539	2497
40°	2537	2528	2487
45°	2460	2483	2455
50°	2365	2382	2390
55°	2263	2245	2279
60°	2116	2082	2108
65°	1904	1867	1865
70°	1622	1585	1548
75°	1277	1248	1197
80°	913	886	837
85°	540	533	496



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.4	3.3
10°-20°	499.8	9.7
20°-30°	779.1	15.1
30°-40°	964.1	18.7
40°-50°	999.5	19.3
50°-60°	860.6	16.7
60°-70°	583.9	11.3
70°-80°	260.5	5.0
80°-90°	46.9	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°	1450.3	28.1
0°-40°	2414.5	46.7
0°-60°	4274.5	82.7
0°-90°	5165.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5165.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1801	1801	1801	1801	1801	
5°	1801	1798	1798	1798	1798	172
15°	1777	1772	1768	1764	1762	502
25°	1708	1702	1689	1677	1672	788
35°	1562	1557	1546	1529	1520	975
45°	1293	1299	1305	1300	1290	996
55°	964	965	957	968	971	860
65°	598	601	586	580	586	592
75°	246	248	240	235	230	267
85°	35	36	34	34	32	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1800.7	1800.7	1800.7	1800.7	1800.7
2.5°	1803.2	1799.3	1799.8	1800.3	1802.2
5°	1800.7	1798.3	1797.8	1797.8	1798.3
7.5°	1797.8	1794.8	1794.3	1793.8	1793.8
10°	1792.4	1789.4	1787.4	1786.4	1786.0
12.5°	1785.0	1781.5	1779.1	1777.1	1775.6
15°	1776.6	1771.7	1767.7	1763.8	1762.3
17.5°	1764.8	1760.3	1753.4	1747.0	1744.5
20°	1750.0	1745.5	1735.7	1726.8	1723.3
22.5°	1732.7	1726.3	1714.0	1704.1	1699.2
25°	1708.5	1702.1	1689.3	1677.0	1672.1
27.5°	1680.4	1674.5	1660.7	1645.9	1640.0
30°	1645.4	1641.5	1626.7	1610.4	1604.0
32.5°	1606.5	1602.5	1589.7	1571.5	1564.1
35°	1561.6	1557.2	1545.8	1529.1	1520.2
37.5°	1508.3	1506.9	1496.0	1478.8	1470.4
40°	1444.7	1447.7	1439.3	1424.5	1416.1
42.5°	1372.3	1378.7	1378.7	1364.9	1356.5
45°	1292.9	1298.8	1304.7	1299.8	1290.4
47.5°	1211.5	1217.9	1224.8	1226.8	1218.9
50°	1129.7	1133.6	1138.0	1146.9	1142.0
52.5°	1048.3	1049.8	1048.3	1060.1	1059.1
55°	964.5	965.0	957.1	967.9	971.4
57.5°	877.2	878.7	865.9	871.8	879.2
60°	786.5	788.0	773.7	774.6	783.5
62.5°	692.8	694.8	680.5	677.0	684.9
65°	598.1	600.6	586.3	579.9	585.8
67.5°	503.9	506.9	493.6	485.7	487.2
70°	412.2	414.7	402.9	395.5	393.5
72.5°	324.9	327.4	318.0	310.6	307.2
75°	245.6	247.5	240.1	234.7	230.3
77.5°	176.5	178.0	172.1	168.1	163.7
80°	117.8	118.3	114.4	111.9	108.0
82.5°	70.5	71.0	68.5	67.6	64.6
85°	35.0	35.5	34.5	34.5	32.1
87.5°	12.3	11.8	12.3	12.3	10.8
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)