

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: P506785

Luminaire Tested: **24PD-70-PL1-L927**

Issue Date: 3/26/2021



**Test Information**

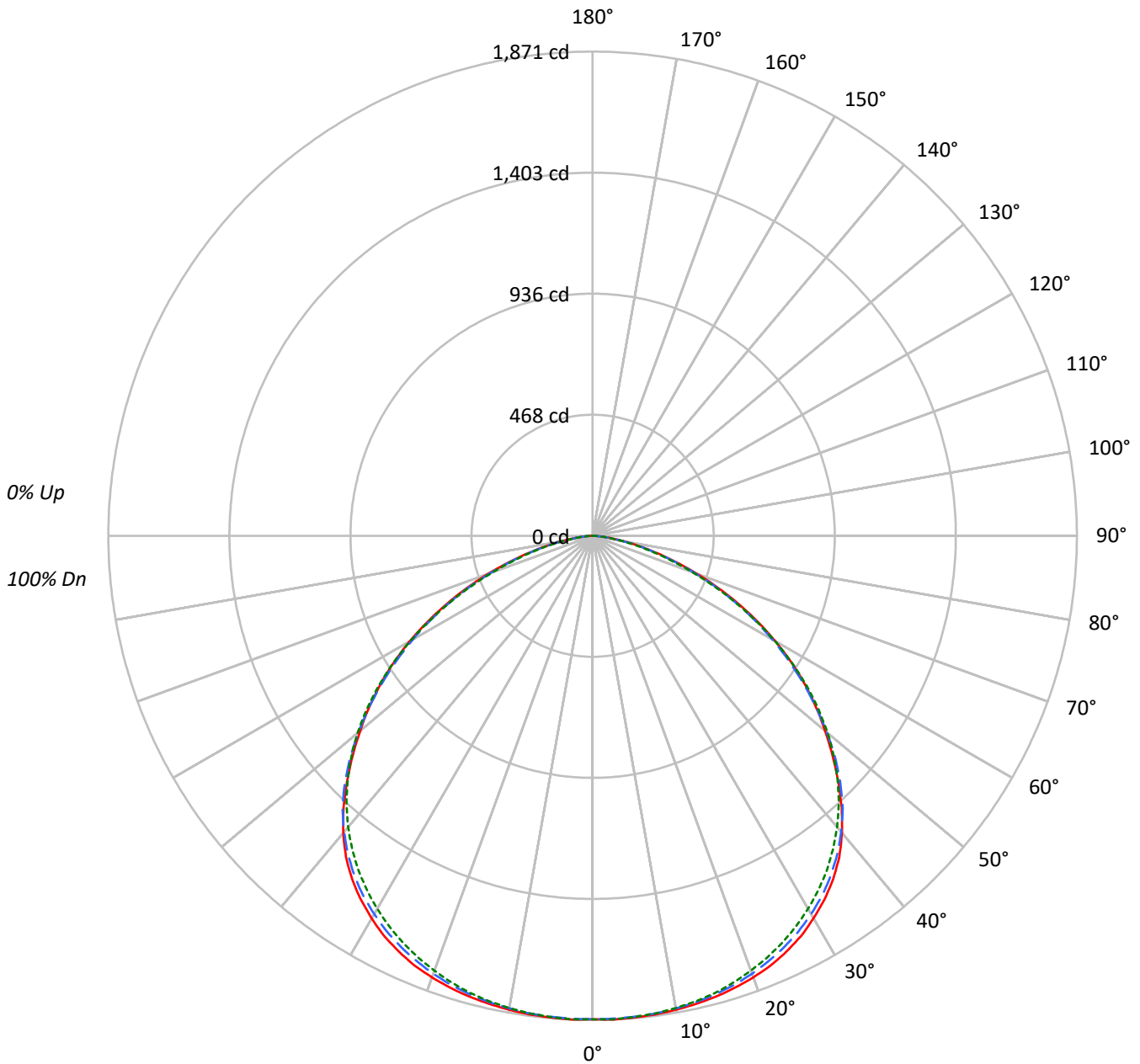
Test Method: LM-79-08  
Report Number: P506785  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-70-PL1-L927  
Description: 7000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,  
2700K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5360.3 lumens  
Efficiency: N/A  
Efficacy: 104.1 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°	2514	2514	2514
5°	2524	2520	2520
10°	2541	2534	2532
15°	2568	2555	2547
20°	2600	2579	2560
25°	2632	2602	2576
30°	2653	2622	2586
35°	2662	2635	2591
40°	2633	2623	2581
45°	2553	2576	2548
50°	2454	2472	2480
55°	2348	2330	2364
60°	2196	2160	2188
65°	1976	1937	1935
70°	1683	1644	1606
75°	1325	1295	1242
80°	948	920	869
85°	560	553	514



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.8	3.3
10°-20°	518.6	9.7
20°-30°	808.5	15.1
30°-40°	1000.4	18.7
40°-50°	1037.1	19.3
50°-60°	893.0	16.7
60°-70°	605.9	11.3
70°-80°	270.3	5.0
80°-90°	48.6	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°	1504.9	28.1
0°-40°	2505.3	46.7
0°-60°	4435.4	82.7
0°-90°	5360.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5360.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1868	1868	1868	1868	1868	
5°	1868	1866	1866	1866	1866	178
15°	1844	1838	1834	1830	1829	521
25°	1773	1766	1753	1740	1735	817
35°	1620	1616	1604	1587	1577	1011
45°	1342	1348	1354	1349	1339	1034
55°	1001	1001	993	1004	1008	893
65°	621	623	608	602	608	614
75°	255	257	249	244	239	277
85°	36	37	36	36	33	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1868.5	1868.5	1868.5	1868.5	1868.5
2.5°	1871.1	1867.0	1867.5	1868.0	1870.1
5°	1868.5	1866.0	1865.5	1865.5	1866.0
7.5°	1865.5	1862.4	1861.9	1861.4	1861.4
10°	1859.8	1856.8	1854.7	1853.7	1853.2
12.5°	1852.2	1848.6	1846.0	1844.0	1842.4
15°	1843.5	1838.3	1834.2	1830.2	1828.6
17.5°	1831.2	1826.6	1819.4	1812.8	1810.2
20°	1815.8	1811.2	1801.0	1791.8	1788.2
22.5°	1797.9	1791.3	1778.5	1768.2	1763.1
25°	1772.9	1766.2	1752.9	1740.1	1735.0
27.5°	1743.7	1737.5	1723.2	1707.9	1701.7
30°	1707.4	1703.3	1687.9	1671.0	1664.4
32.5°	1666.9	1662.8	1649.5	1630.6	1622.9
35°	1620.4	1615.8	1604.0	1586.6	1577.4
37.5°	1565.1	1563.6	1552.3	1534.4	1525.7
40°	1499.1	1502.2	1493.5	1478.1	1469.4
42.5°	1423.9	1430.6	1430.6	1416.2	1407.5
45°	1341.5	1347.7	1353.8	1348.7	1339.0
47.5°	1257.1	1263.8	1270.9	1273.0	1264.8
50°	1172.2	1176.3	1180.9	1190.1	1185.0
52.5°	1087.8	1089.3	1087.8	1100.0	1099.0
55°	1000.8	1001.3	993.1	1004.4	1007.9
57.5°	910.2	911.8	898.4	904.6	912.3
60°	816.1	817.6	802.8	803.8	813.0
62.5°	718.9	720.9	706.1	702.5	710.7
65°	620.6	623.2	608.3	601.7	607.8
67.5°	522.9	526.0	512.2	504.0	505.5
70°	427.7	430.3	418.0	410.3	408.3
72.5°	337.2	339.7	330.0	322.3	318.8
75°	254.8	256.8	249.2	243.5	238.9
77.5°	183.2	184.7	178.6	174.5	169.9
80°	122.3	122.8	118.7	116.1	112.1
82.5°	73.2	73.7	71.1	70.1	67.0
85°	36.3	36.8	35.8	35.8	33.3
87.5°	12.8	12.3	12.8	12.8	11.3
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)