

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: P506695

Luminaire Tested: **24PD-50-PW1-L927**

Issue Date: 3/26/2021

**Test Information**

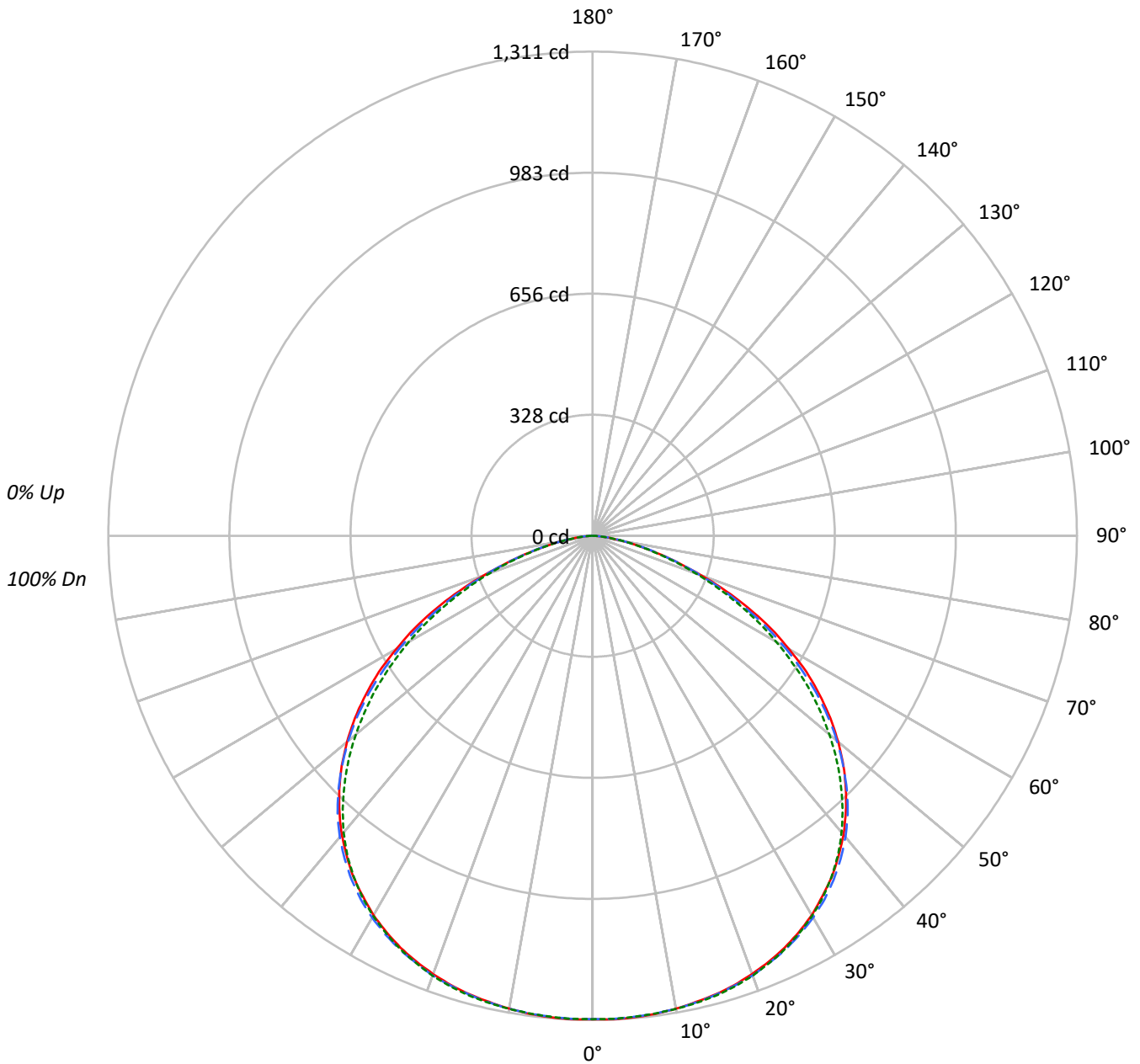
Test Method: LM-79-08  
Report Number: P506695  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-50-PW1-L927  
Description: 5000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 90 CRI,  
2700K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3839.0 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.45  
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				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	98	95	93	95	92	90	91	89	87	85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30			
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25			

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

	0°	45°	90°
0°	1761	1761	1761
5°	1768	1766	1766
10°	1777	1777	1777
15°	1791	1792	1796
20°	1808	1814	1815
25°	1827	1835	1832
30°	1843	1855	1846
35°	1854	1868	1852
40°	1856	1870	1842
45°	1845	1852	1807
50°	1816	1808	1751
55°	1758	1730	1668
60°	1651	1609	1546
65°	1489	1435	1377
70°	1228	1209	1164
75°	938	948	910
80°	652	671	657
85°	389	406	395



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.6	3.2
10°-20°	363.9	9.5
20°-30°	569.2	14.8
30°-40°	708.0	18.4
40°-50°	744.0	19.4
50°-60°	653.1	17.0
60°-70°	444.7	11.6
70°-80°	196.2	5.1
80°-90°	35.3	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°	1057.7	27.6
0°-40°	1765.7	46.0
0°-60°	3162.8	82.4
0°-90°	3839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3839.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1309	1309	1309	1309	1309	
5°	1309	1308	1307	1306	1307	125
15°	1286	1287	1287	1287	1289	363
25°	1230	1234	1236	1235	1234	567
35°	1129	1134	1137	1132	1128	705
45°	970	976	973	957	950	747
55°	750	747	738	718	711	668
65°	468	456	451	441	432	461
75°	180	182	182	179	175	198
85°	25	26	26	26	26	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1309.1	1309.1	1309.1	1309.1	1309.1
2.5°	1310.6	1309.8	1309.1	1308.0	1309.1
5°	1308.7	1308.4	1307.3	1305.8	1307.3
7.5°	1305.8	1305.8	1304.7	1303.6	1304.4
10°	1300.3	1301.4	1300.3	1299.2	1300.7
12.5°	1293.0	1294.9	1294.5	1294.5	1295.6
15°	1285.7	1287.2	1286.8	1286.8	1289.4
17.5°	1275.5	1277.3	1277.7	1278.4	1279.9
20°	1262.7	1265.3	1266.7	1266.4	1267.4
22.5°	1247.7	1250.6	1251.7	1252.5	1251.7
25°	1230.5	1233.8	1236.0	1235.3	1234.2
27.5°	1209.7	1213.4	1216.3	1214.5	1212.3
30°	1186.3	1189.6	1194.0	1190.7	1188.5
32.5°	1157.4	1163.7	1167.7	1163.7	1160.4
35°	1128.6	1133.7	1137.3	1131.9	1127.5
37.5°	1093.5	1099.7	1103.0	1095.3	1090.6
40°	1056.6	1062.8	1064.6	1054.7	1048.5
42.5°	1014.5	1021.5	1022.2	1008.3	1001.4
45°	969.6	975.8	973.2	957.2	949.9
47.5°	921.0	925.4	919.9	903.4	895.4
50°	867.6	870.2	863.6	844.2	836.6
52.5°	811.3	811.0	802.6	783.2	774.8
55°	749.6	746.7	737.5	718.1	711.2
57.5°	686.4	677.2	667.3	650.9	641.8
60°	613.6	606.7	597.9	581.5	574.5
62.5°	544.9	532.5	525.2	510.6	504.3
65°	467.8	456.5	450.6	440.8	432.4
67.5°	390.3	381.6	377.5	370.6	362.9
70°	312.1	309.6	307.4	300.8	296.0
72.5°	243.0	242.3	241.9	238.3	233.5
75°	180.5	181.6	182.4	179.1	175.1
77.5°	128.6	130.5	130.1	128.3	127.2
80°	84.1	85.5	86.6	84.8	84.8
82.5°	50.8	52.3	51.9	52.6	51.2
85°	25.2	26.3	26.3	25.9	25.6
87.5°	9.1	9.5	9.1	9.5	9.1
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)