

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: P506681

Luminaire Tested: **24PD-50-PL1-L950**

Issue Date: 3/26/2021



**Test Information**

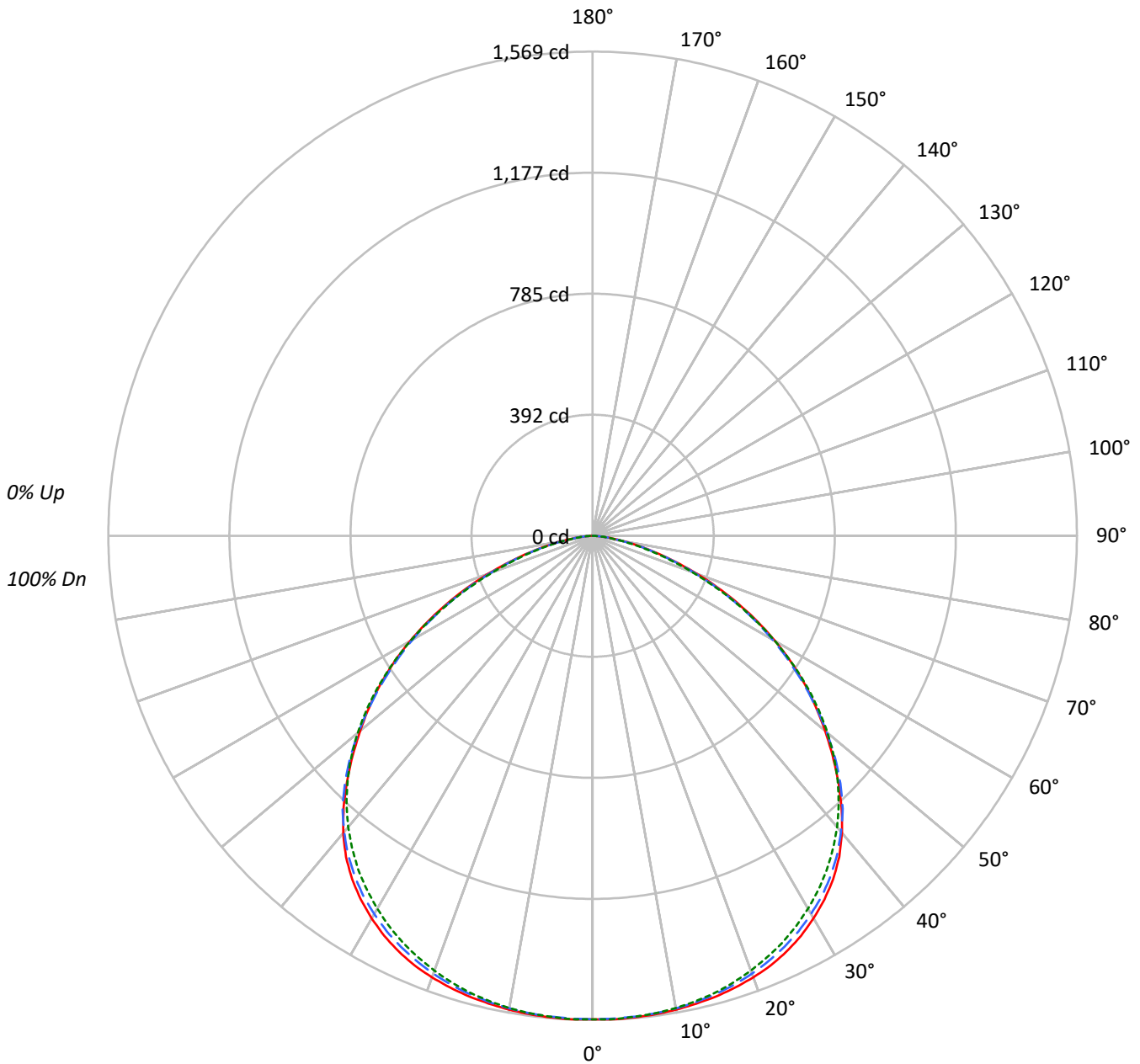
Test Method: LM-79-08  
Report Number: P506681  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-50-PL1-L950  
Description: 5000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4494.3 lumens  
Efficiency: N/A  
Efficacy: 121.1 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): 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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CATALOG NUMBER: 24PD-50-PL1-L950

### 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			100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85			85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72			72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61			61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52			52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45			45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39			39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35			35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31			31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28			28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25			25

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

	0°	45°	90°
0°	2108	2108	2108
5°	2116	2113	2113
10°	2131	2125	2123
15°	2153	2142	2136
20°	2180	2162	2147
25°	2207	2182	2160
30°	2224	2199	2168
35°	2232	2209	2172
40°	2208	2199	2164
45°	2140	2160	2136
50°	2057	2072	2080
55°	1968	1953	1982
60°	1841	1811	1834
65°	1657	1624	1622
70°	1411	1379	1347
75°	1110	1086	1041
80°	794	771	728
85°	471	463	431



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.1	3.3
10°-20°	434.9	9.7
20°-30°	677.9	15.1
30°-40°	838.8	18.7
40°-50°	869.5	19.3
50°-60°	748.7	16.7
60°-70°	508.0	11.3
70°-80°	226.7	5.0
80°-90°	40.8	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°	1261.8	28.1
0°-40°	2100.6	46.7
0°-60°	3718.8	82.7
0°-90°	4494.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4494.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1567	1564	1564	1564	1564	149
15°	1546	1541	1538	1534	1533	437
25°	1486	1481	1470	1459	1455	685
35°	1359	1355	1345	1330	1323	848
45°	1125	1130	1135	1131	1123	867
55°	839	840	833	842	845	748
65°	520	522	510	504	510	515
75°	214	215	209	204	200	232
85°	30	31	30	30	28	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1566.7	1566.7	1566.7	1566.7	1566.7
2.5°	1568.8	1565.4	1565.8	1566.2	1567.9
5°	1566.7	1564.5	1564.1	1564.1	1564.5
7.5°	1564.1	1561.5	1561.1	1560.7	1560.7
10°	1559.4	1556.8	1555.1	1554.2	1553.8
12.5°	1552.9	1549.9	1547.8	1546.1	1544.8
15°	1545.6	1541.3	1537.9	1534.5	1533.2
17.5°	1535.3	1531.5	1525.5	1519.9	1517.8
20°	1522.5	1518.6	1510.0	1502.3	1499.3
22.5°	1507.5	1501.9	1491.2	1482.6	1478.3
25°	1486.4	1480.9	1469.7	1459.0	1454.7
27.5°	1462.0	1456.8	1444.8	1432.0	1426.8
30°	1431.5	1428.1	1415.2	1401.1	1395.5
32.5°	1397.6	1394.2	1383.1	1367.2	1360.7
35°	1358.6	1354.7	1344.9	1330.3	1322.6
37.5°	1312.3	1311.0	1301.5	1286.5	1279.2
40°	1256.9	1259.5	1252.2	1239.3	1232.0
42.5°	1193.9	1199.4	1199.4	1187.4	1180.1
45°	1124.8	1129.9	1135.1	1130.8	1122.7
47.5°	1054.0	1059.6	1065.6	1067.3	1060.5
50°	982.8	986.2	990.1	997.8	993.5
52.5°	912.0	913.3	912.0	922.3	921.5
55°	839.1	839.5	832.7	842.1	845.1
57.5°	763.2	764.5	753.3	758.4	764.9
60°	684.2	685.5	673.1	673.9	681.7
62.5°	602.7	604.4	592.0	589.0	595.9
65°	520.4	522.5	510.1	504.5	509.6
67.5°	438.4	441.0	429.4	422.6	423.8
70°	358.6	360.8	350.5	344.0	342.3
72.5°	282.7	284.8	276.7	270.3	267.3
75°	213.6	215.4	208.9	204.2	200.3
77.5°	153.6	154.9	149.7	146.3	142.4
80°	102.5	103.0	99.5	97.4	93.9
82.5°	61.3	61.8	59.6	58.8	56.2
85°	30.5	30.9	30.0	30.0	27.9
87.5°	10.7	10.3	10.7	10.7	9.4
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)