

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: P506680

Luminaire Tested: **24PD-50-PL1-L940**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506680
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-L940
Description: 5000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

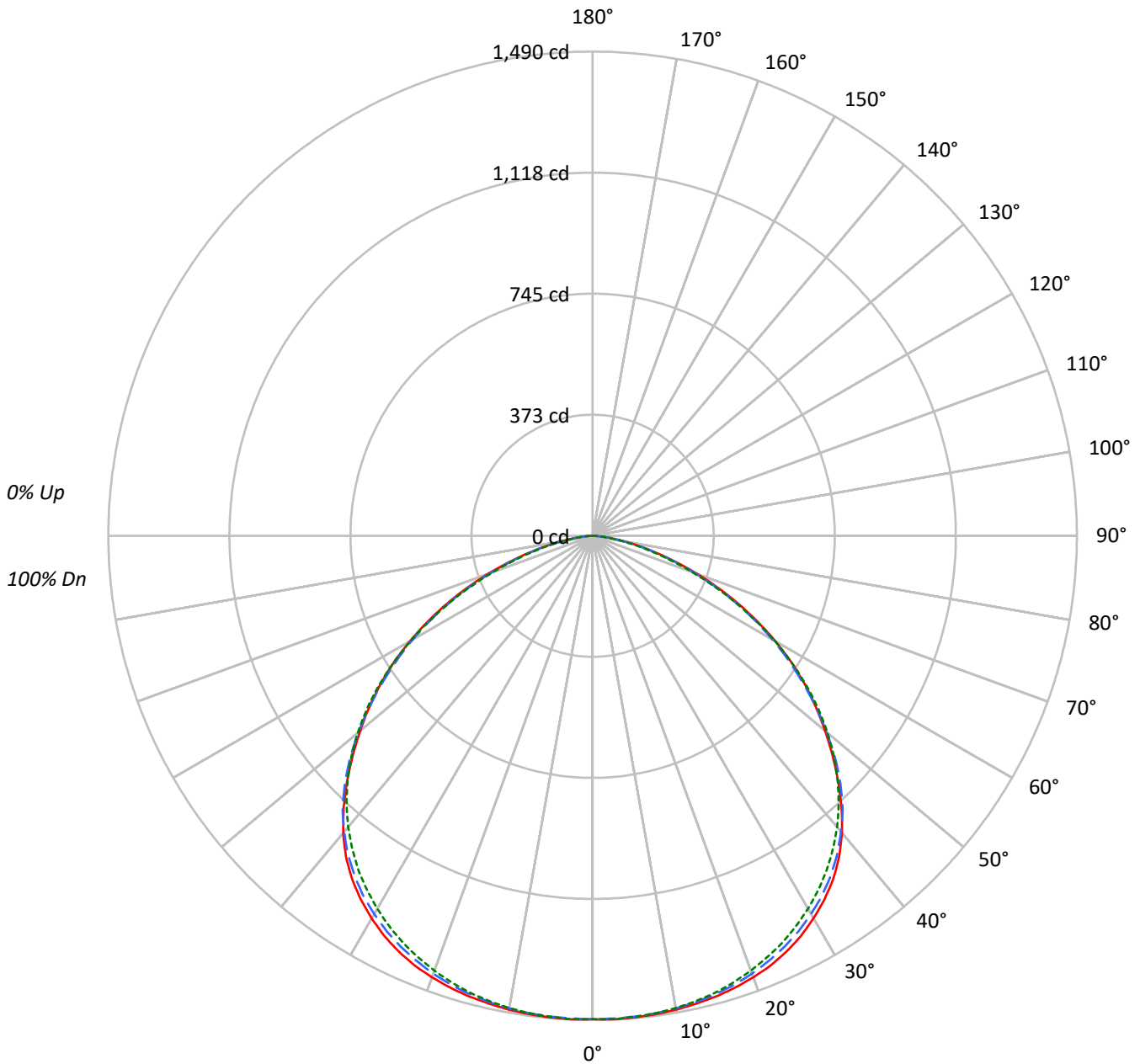
Lumens per Lamp: N/A
Luminaire Lumens: 4267.8 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.1
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P506680

CATALOG NUMBER: 24PD-50-PL1-L940

Luminous Intensity Polar Plot





TEST NUMBER: P506680

CATALOG NUMBER: 24PD-50-PL1-L940

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°	2002	2002	2002
5°	2009	2006	2007
10°	2023	2018	2016
15°	2044	2034	2028
20°	2070	2053	2039
25°	2095	2072	2051
30°	2112	2088	2059
35°	2119	2098	2063
40°	2096	2089	2055
45°	2032	2051	2029
50°	1954	1968	1975
55°	1869	1855	1882
60°	1748	1720	1742
65°	1573	1542	1541
70°	1340	1309	1279
75°	1055	1031	989
80°	755	732	691
85°	446	440	409



TEST NUMBER: P506680

CATALOG NUMBER: 24PD-50-PL1-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	3.3
10°-20°	412.9	9.7
20°-30°	643.7	15.1
30°-40°	796.5	18.7
40°-50°	825.7	19.3
50°-60°	711.0	16.7
60°-70°	482.4	11.3
70°-80°	215.3	5.0
80°-90°	38.7	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°	1198.2	28.1
0°-40°	1994.7	46.7
0°-60°	3531.4	82.7
0°-90°	4267.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4267.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1488	1486	1485	1485	1486	142
15°	1468	1464	1460	1457	1456	415
25°	1412	1406	1396	1385	1381	651
35°	1290	1286	1277	1263	1256	805
45°	1068	1073	1078	1074	1066	823
55°	797	797	791	800	802	711
65°	494	496	484	479	484	489
75°	203	204	198	194	190	220
85°	29	29	28	28	26	40
90°	0	0	0	0	0	



TEST NUMBER: P506680

CATALOG NUMBER: 24PD-50-PL1-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1487.7	1487.7	1487.7	1487.7	1487.7
2.5°	1489.7	1486.5	1486.9	1487.3	1488.9
5°	1487.7	1485.7	1485.3	1485.3	1485.7
7.5°	1485.3	1482.8	1482.4	1482.0	1482.0
10°	1480.8	1478.3	1476.7	1475.9	1475.5
12.5°	1474.7	1471.8	1469.8	1468.1	1466.9
15°	1467.7	1463.7	1460.4	1457.1	1455.9
17.5°	1458.0	1454.3	1448.6	1443.3	1441.3
20°	1445.7	1442.1	1433.9	1426.6	1423.7
22.5°	1431.5	1426.2	1416.0	1407.9	1403.8
25°	1411.5	1406.2	1395.6	1385.4	1381.4
27.5°	1388.3	1383.4	1372.0	1359.8	1354.9
30°	1359.4	1356.1	1343.9	1330.5	1325.2
32.5°	1327.2	1323.9	1313.3	1298.3	1292.2
35°	1290.1	1286.5	1277.1	1263.2	1255.9
37.5°	1246.1	1244.9	1235.9	1221.7	1214.8
40°	1193.6	1196.0	1189.1	1176.9	1170.0
42.5°	1133.7	1139.0	1139.0	1127.6	1120.7
45°	1068.1	1073.0	1077.9	1073.8	1066.1
47.5°	1000.9	1006.2	1011.9	1013.5	1007.0
50°	933.3	936.5	940.2	947.5	943.5
52.5°	866.1	867.3	866.1	875.8	875.0
55°	796.8	797.2	790.7	799.7	802.5
57.5°	724.7	725.9	715.3	720.2	726.3
60°	649.7	651.0	639.2	640.0	647.3
62.5°	572.3	574.0	562.2	559.3	565.8
65°	494.1	496.2	484.4	479.1	483.9
67.5°	416.3	418.8	407.8	401.3	402.5
70°	340.6	342.6	332.8	326.7	325.1
72.5°	268.5	270.5	262.8	256.6	253.8
75°	202.9	204.5	198.4	193.9	190.2
77.5°	145.8	147.1	142.2	138.9	135.2
80°	97.4	97.8	94.5	92.5	89.2
82.5°	58.3	58.7	56.6	55.8	53.4
85°	28.9	29.3	28.5	28.5	26.5
87.5°	10.2	9.8	10.2	10.2	9.0
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)