

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: P505920

Luminaire Tested: **14PD-40-PL1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-40-PL1-L850
Description: 4000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

Summary

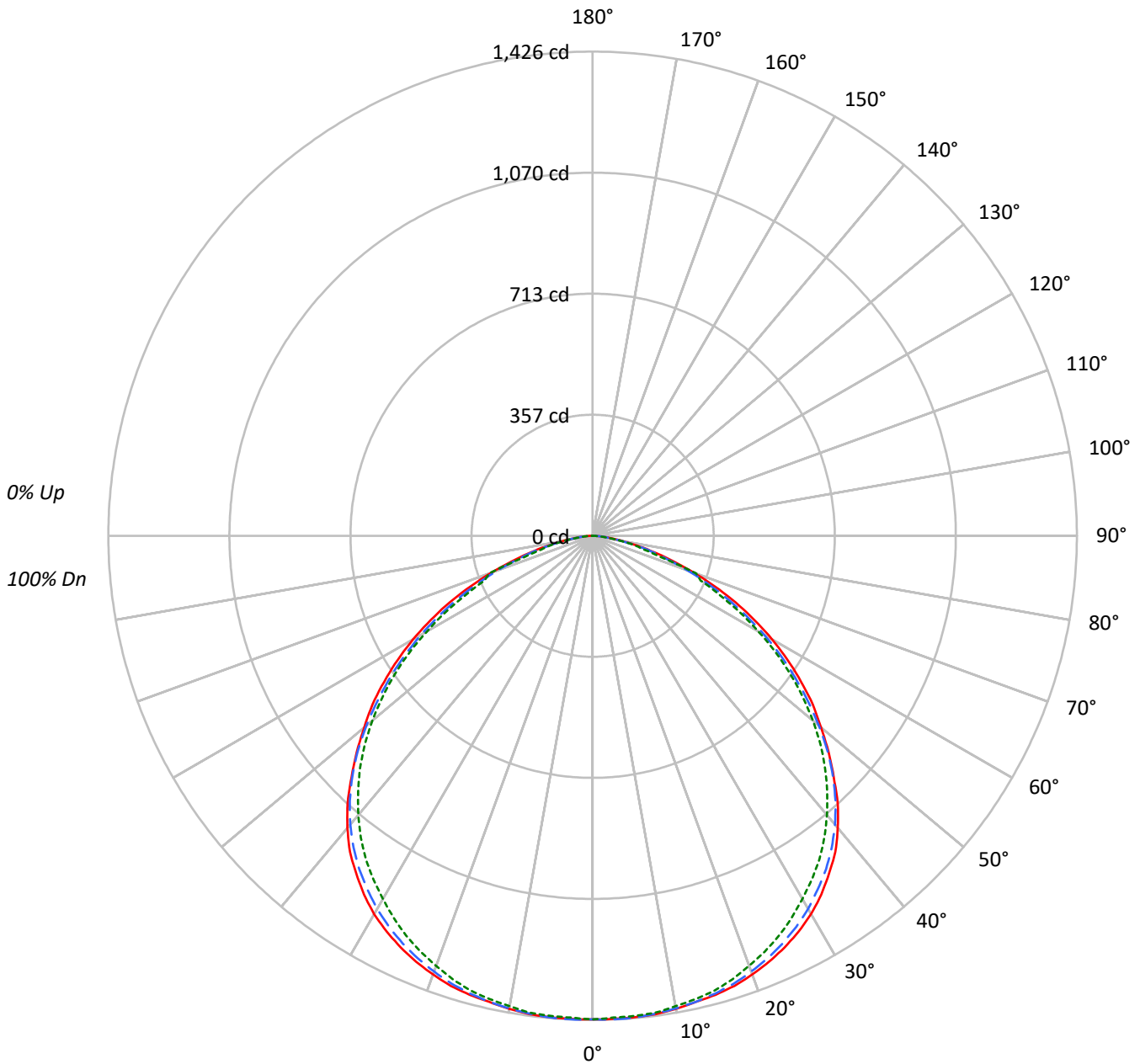
Lumens per Lamp: N/A
Luminaire Lumens: 3958.9 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
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: P505920

CATALOG NUMBER: 14PD-40-PL1-L850

Luminous Intensity Polar Plot





TEST NUMBER: P505920

CATALOG NUMBER: 14PD-40-PL1-L850

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72																			
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61																			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52																			
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45																			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40																			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35																			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31																			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28																			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3833	3833	3833
5°	3846	3848	3835
10°	3866	3862	3845
15°	3899	3888	3864
20°	3938	3911	3860
25°	3972	3932	3858
30°	3998	3943	3838
35°	3988	3937	3824
40°	3946	3899	3770
45°	3819	3808	3685
50°	3674	3641	3543
55°	3516	3413	3336
60°	3284	3137	3031
65°	2958	2774	2625
70°	2474	2320	2548
75°	1952	1879	1626
80°	1406	1249	1272
85°	892	747	701



TEST NUMBER: P505920

CATALOG NUMBER: 14PD-40-PL1-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	3.4
10°-20°	393.7	9.9
20°-30°	608.7	15.4
30°-40°	744.9	18.8
40°-50°	763.7	19.3
50°-60°	650.4	16.4
60°-70°	434.6	11.0
70°-80°	192.6	4.9
80°-90°	34.8	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°	1137.8	28.7
0°-40°	1882.7	47.6
0°-60°	3296.8	83.3
0°-90°	3958.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3958.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1424	1420	1424	1424	1420	136
15°	1399	1395	1396	1392	1387	396
25°	1338	1333	1324	1307	1299	617
35°	1214	1211	1198	1172	1164	759
45°	1004	1007	1000	978	968	775
55°	749	746	728	713	711	669
65°	465	461	436	416	412	458
75°	188	190	181	182	156	203
85°	29	28	24	24	23	38
90°	0	0	0	0	0	



TEST NUMBER: P505920

CATALOG NUMBER: 14PD-40-PL1-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1424.4	1424.4	1424.4	1424.4	1424.4
2.5°	1424.4	1422.1	1426.0	1427.6	1420.5
5°	1423.6	1420.5	1424.4	1423.6	1419.7
7.5°	1421.3	1415.8	1419.7	1418.2	1416.6
10°	1415.0	1410.3	1413.5	1411.1	1407.2
12.5°	1406.4	1403.3	1405.7	1403.3	1397.8
15°	1399.4	1394.7	1395.5	1391.6	1386.9
17.5°	1390.0	1383.0	1383.0	1375.1	1369.7
20°	1375.1	1368.9	1365.8	1354.8	1347.8
22.5°	1357.9	1353.2	1347.0	1332.9	1325.1
25°	1337.6	1332.9	1324.3	1307.1	1299.3
27.5°	1314.1	1307.9	1298.5	1278.2	1268.8
30°	1286.8	1278.9	1268.8	1246.1	1235.1
32.5°	1253.1	1247.6	1234.3	1210.9	1200.7
35°	1214.0	1210.9	1198.4	1171.8	1163.9
37.5°	1174.1	1167.9	1156.9	1128.7	1120.9
40°	1123.3	1119.4	1110.0	1082.6	1073.2
42.5°	1068.5	1066.2	1058.3	1032.5	1022.4
45°	1003.6	1006.7	1000.5	977.8	968.4
47.5°	941.8	940.2	937.9	917.5	909.7
50°	877.7	874.5	869.8	853.4	846.4
52.5°	817.4	811.2	798.6	784.6	779.9
55°	749.4	745.5	727.5	712.6	711.0
57.5°	680.5	678.2	656.3	639.1	639.1
60°	610.1	607.0	582.8	564.8	563.2
62.5°	536.6	534.3	509.2	488.9	489.7
65°	464.6	460.7	435.7	416.1	412.2
67.5°	389.5	388.0	363.7	345.7	344.2
70°	314.5	314.5	294.9	279.3	323.8
72.5°	248.0	245.6	230.0	222.9	212.8
75°	187.7	190.1	180.7	181.5	156.4
77.5°	133.8	129.8	125.9	117.3	124.4
80°	90.7	88.4	80.6	78.2	82.1
82.5°	56.3	57.1	50.1	45.4	44.6
85°	28.9	28.2	24.2	23.5	22.7
87.5°	11.0	11.7	10.2	9.4	8.6
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)