

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: P505946

Luminaire Tested: **14PD-45-PL1-L840**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P505946  
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-45-PL1-L840  
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

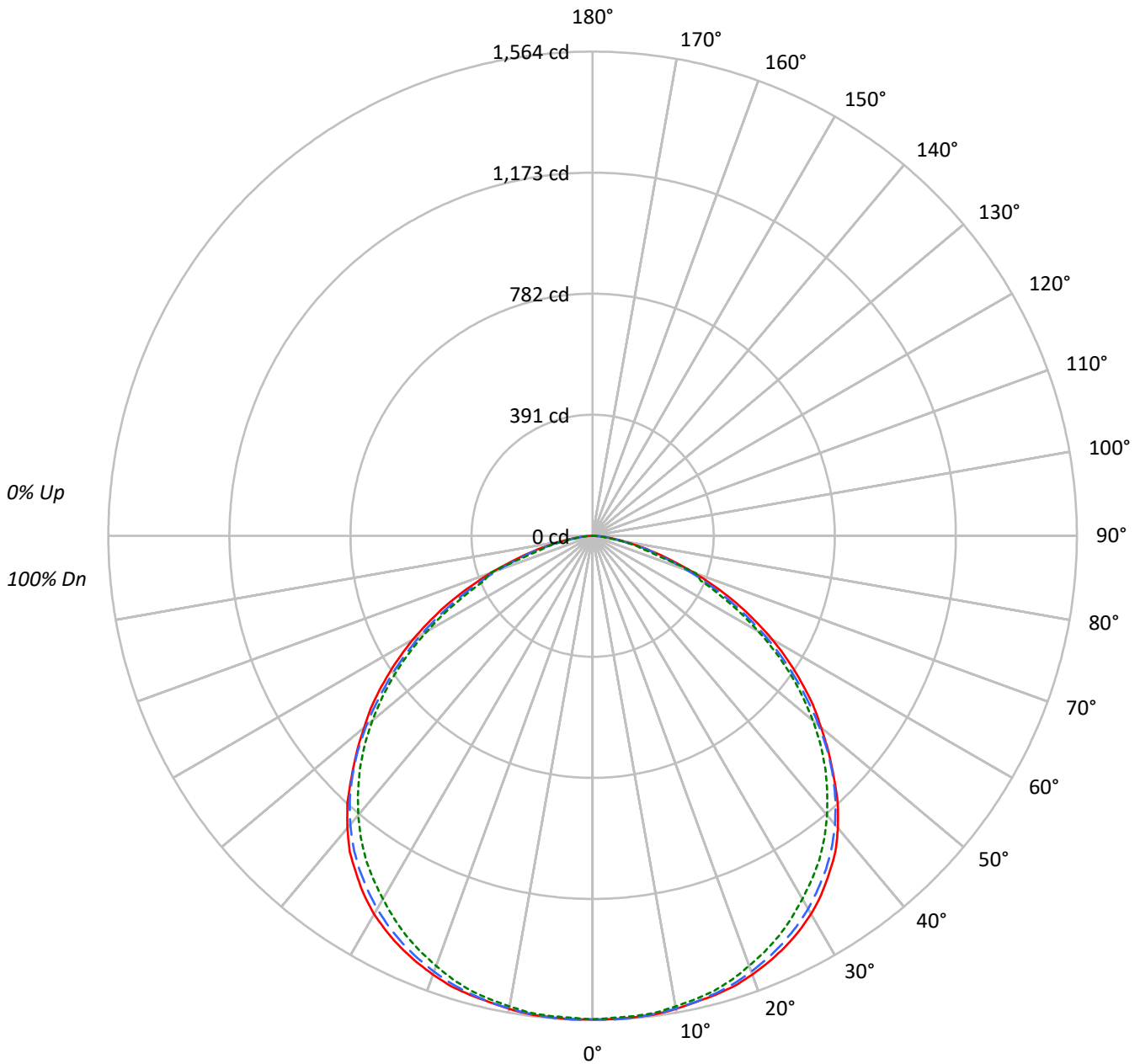
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4342.4 lumens  
Efficiency: N/A  
Efficacy: 101.2 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): 42.9  
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

TEST NUMBER: P505946

CATALOG NUMBER: 14PD-45-PL1-L840

### Luminous Intensity Polar Plot





TEST NUMBER: P505946

CATALOG NUMBER: 14PD-45-PL1-L840

**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	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°	4204	4204	4204
5°	4218	4220	4207
10°	4241	4236	4218
15°	4276	4264	4238
20°	4320	4290	4233
25°	4356	4313	4231
30°	4386	4324	4210
35°	4374	4318	4194
40°	4328	4277	4135
45°	4189	4176	4042
50°	4030	3994	3886
55°	3856	3743	3659
60°	3602	3440	3325
65°	3245	3043	2879
70°	2714	2545	2795
75°	2141	2061	1784
80°	1542	1370	1396
85°	979	821	769



TEST NUMBER: P505946

CATALOG NUMBER: 14PD-45-PL1-L840

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.6	3.4
10°-20°	431.8	9.9
20°-30°	667.6	15.4
30°-40°	817.1	18.8
40°-50°	837.7	19.3
50°-60°	713.4	16.4
60°-70°	476.8	11.0
70°-80°	211.3	4.9
80°-90°	38.2	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°	1248.0	28.7
0°-40°	2065.1	47.6
0°-60°	3616.2	83.3
0°-90°	4342.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4342.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1562	1562	1562	1562	1562	
5°	1562	1558	1562	1562	1557	149
15°	1535	1530	1531	1526	1521	434
25°	1467	1462	1453	1434	1425	677
35°	1332	1328	1314	1285	1277	833
45°	1101	1104	1097	1072	1062	850
55°	822	818	798	782	780	733
65°	510	505	478	456	452	502
75°	206	208	198	199	172	223
85°	32	31	27	26	25	42
90°	0	0	0	0	0	



TEST NUMBER: P505946

CATALOG NUMBER: 14PD-45-PL1-L840

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1562.4	1562.4	1562.4	1562.4	1562.4
2.5°	1562.4	1559.8	1564.1	1565.8	1558.1
5°	1561.5	1558.1	1562.4	1561.5	1557.3
7.5°	1559.0	1553.0	1557.3	1555.5	1553.8
10°	1552.1	1547.0	1550.4	1547.8	1543.5
12.5°	1542.7	1539.2	1541.8	1539.2	1533.2
15°	1535.0	1529.8	1530.7	1526.4	1521.2
17.5°	1524.7	1516.9	1516.9	1508.4	1502.3
20°	1508.4	1501.5	1498.1	1486.0	1478.3
22.5°	1489.5	1484.3	1477.5	1462.0	1453.4
25°	1467.2	1462.0	1452.6	1433.7	1425.1
27.5°	1441.4	1434.6	1424.3	1402.0	1391.7
30°	1411.4	1402.8	1391.7	1366.8	1354.8
32.5°	1374.5	1368.5	1353.9	1328.2	1317.0
35°	1331.6	1328.2	1314.4	1285.3	1276.7
37.5°	1287.8	1281.0	1269.0	1238.1	1229.5
40°	1232.1	1227.8	1217.5	1187.5	1177.2
42.5°	1172.0	1169.4	1160.9	1132.6	1121.4
45°	1100.8	1104.2	1097.4	1072.5	1062.2
47.5°	1033.0	1031.3	1028.7	1006.4	997.8
50°	962.7	959.2	954.1	936.1	928.3
52.5°	896.6	889.7	876.0	860.6	855.4
55°	822.0	817.7	797.9	781.6	779.9
57.5°	746.5	743.9	719.9	701.0	701.0
60°	669.2	665.8	639.2	619.5	617.8
62.5°	588.6	586.0	558.6	536.2	537.1
65°	509.6	505.4	477.9	456.5	452.2
67.5°	427.3	425.6	399.0	379.2	377.5
70°	344.9	344.9	323.5	306.3	355.2
72.5°	272.0	269.4	252.3	244.5	233.4
75°	205.9	208.5	198.2	199.1	171.6
77.5°	146.7	142.4	138.1	128.7	136.4
80°	99.5	97.0	88.4	85.8	90.1
82.5°	61.8	62.6	54.9	49.8	48.9
85°	31.7	30.9	26.6	25.7	24.9
87.5°	12.0	12.9	11.2	10.3	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)