

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: P506594

Luminaire Tested: **24PD-35-PL1-L840**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506594  
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-35-PL1-L840  
Description: 3500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

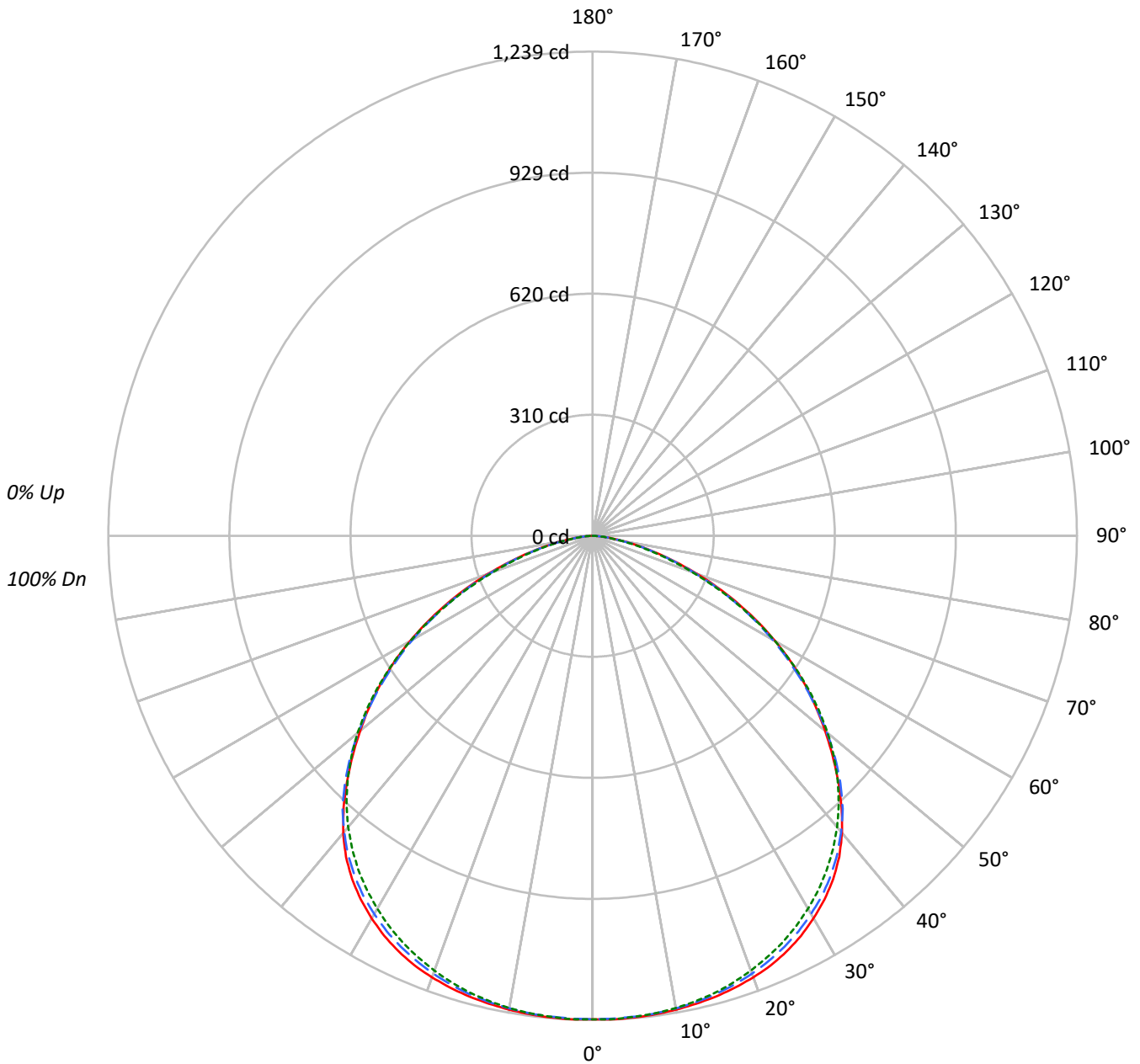
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3549.1 lumens  
Efficiency: N/A  
Efficacy: 140.3 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): 25.3  
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: P506594

CATALOG NUMBER: 24PD-35-PL1-L840

### Luminous Intensity Polar Plot





TEST NUMBER: P506594

CATALOG NUMBER: 24PD-35-PL1-L840

**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°	1665	1665	1665
5°	1671	1668	1669
10°	1682	1678	1676
15°	1700	1692	1687
20°	1722	1707	1695
25°	1743	1723	1705
30°	1756	1736	1712
35°	1762	1744	1715
40°	1743	1737	1709
45°	1690	1706	1687
50°	1625	1637	1642
55°	1554	1543	1566
60°	1454	1430	1449
65°	1308	1282	1281
70°	1114	1089	1063
75°	877	858	822
80°	628	609	575
85°	372	366	340



TEST NUMBER: P506594

CATALOG NUMBER: 24PD-35-PL1-L840

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.7	3.3
10°-20°	343.4	9.7
20°-30°	535.3	15.1
30°-40°	662.4	18.7
40°-50°	686.7	19.3
50°-60°	591.2	16.7
60°-70°	401.1	11.3
70°-80°	179.0	5.0
80°-90°	32.2	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°	996.4	28.1
0°-40°	1658.8	46.7
0°-60°	2936.8	82.7
0°-90°	3549.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3549.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1237	1237	1237	1237	1237	
5°	1237	1236	1235	1235	1236	118
15°	1221	1217	1214	1212	1211	345
25°	1174	1169	1161	1152	1149	541
35°	1073	1070	1062	1050	1044	670
45°	888	892	896	893	887	685
55°	663	663	658	665	667	591
65°	411	413	403	398	402	407
75°	169	170	165	161	158	183
85°	24	24	24	24	22	33
90°	0	0	0	0	0	



TEST NUMBER: P506594

CATALOG NUMBER: 24PD-35-PL1-L840

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1237.2	1237.2	1237.2	1237.2	1237.2
2.5°	1238.9	1236.2	1236.5	1236.8	1238.2
5°	1237.2	1235.5	1235.2	1235.2	1235.5
7.5°	1235.2	1233.1	1232.8	1232.4	1232.4
10°	1231.4	1229.4	1228.0	1227.4	1227.0
12.5°	1226.3	1224.0	1222.3	1220.9	1219.9
15°	1220.6	1217.2	1214.5	1211.8	1210.8
17.5°	1212.5	1209.4	1204.7	1200.3	1198.6
20°	1202.3	1199.2	1192.5	1186.4	1184.0
22.5°	1190.4	1186.0	1177.6	1170.8	1167.4
25°	1173.8	1169.4	1160.6	1152.2	1148.8
27.5°	1154.5	1150.5	1141.0	1130.8	1126.7
30°	1130.5	1127.8	1117.6	1106.4	1102.0
32.5°	1103.7	1101.0	1092.2	1079.7	1074.6
35°	1072.9	1069.8	1062.0	1050.5	1044.4
37.5°	1036.3	1035.3	1027.8	1016.0	1010.2
40°	992.6	994.6	988.9	978.7	972.9
42.5°	942.8	947.2	947.2	937.7	932.0
45°	888.3	892.3	896.4	893.0	886.6
47.5°	832.4	836.8	841.5	842.9	837.4
50°	776.1	778.8	781.9	788.0	784.6
52.5°	720.2	721.2	720.2	728.4	727.7
55°	662.6	663.0	657.6	665.0	667.4
57.5°	602.7	603.7	594.9	598.9	604.0
60°	540.3	541.4	531.5	532.2	538.3
62.5°	476.0	477.3	467.5	465.1	470.6
65°	410.9	412.6	402.8	398.4	402.5
67.5°	346.2	348.3	339.1	333.7	334.7
70°	283.2	284.9	276.8	271.7	270.3
72.5°	223.2	224.9	218.5	213.4	211.1
75°	168.7	170.1	165.0	161.3	158.2
77.5°	121.3	122.3	118.2	115.5	112.5
80°	81.0	81.3	78.6	76.9	74.2
82.5°	48.4	48.8	47.1	46.4	44.4
85°	24.1	24.4	23.7	23.7	22.0
87.5°	8.5	8.1	8.5	8.5	7.5
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)