

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: P506675

Luminaire Tested: **24PD-50-PL1-L840**

Issue Date: 3/26/2021



**Test Information**

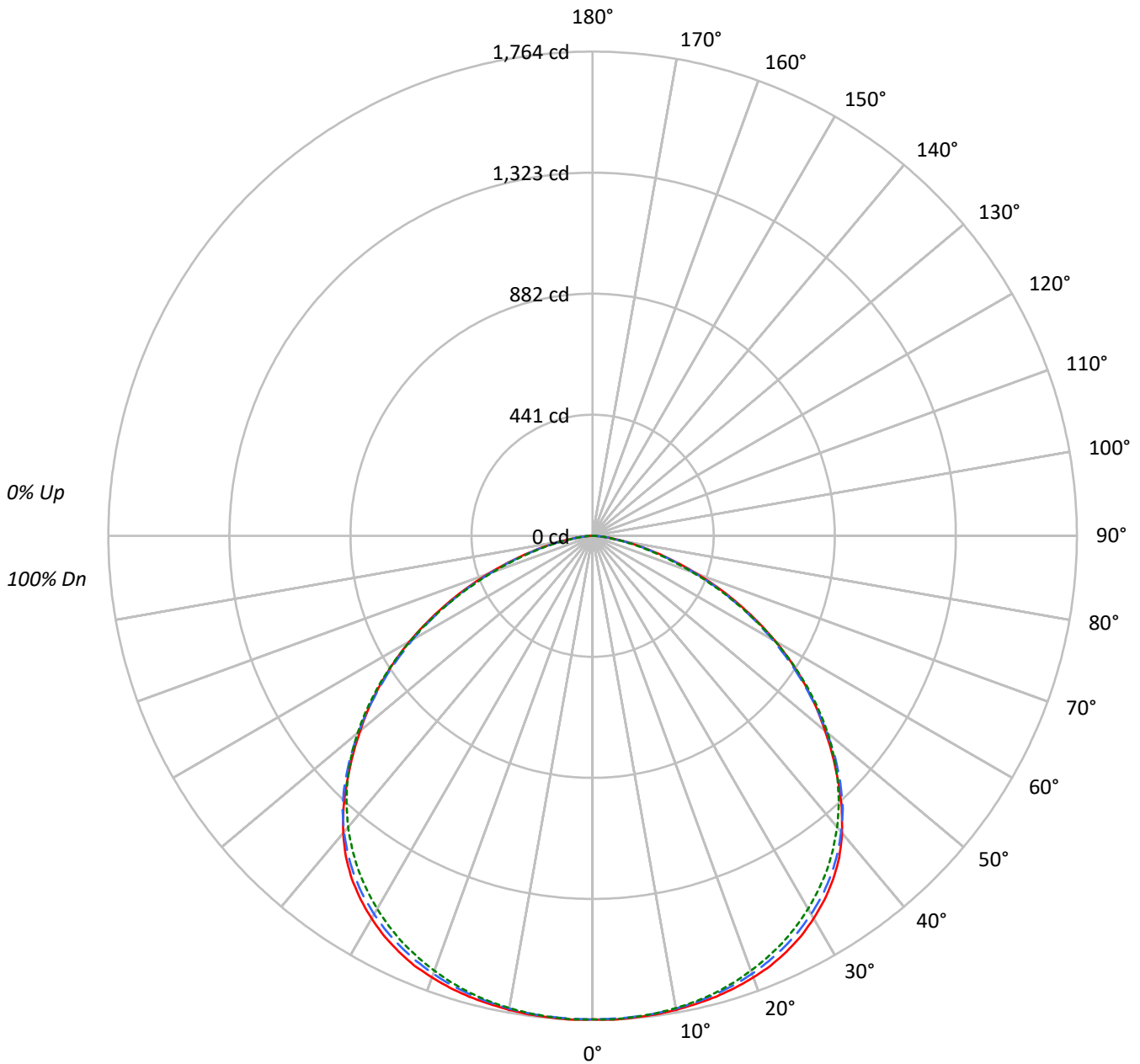
Test Method: LM-79-08  
Report Number: P506675  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-50-PL1-L840  
Description: 5000 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: 5054.6 lumens  
Efficiency: N/A  
Efficacy: 136.2 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

TEST NUMBER: P506675  
CATALOG NUMBER: 24PD-50-PL1-L840

### Luminous Intensity Polar Plot





TEST NUMBER: P506675

CATALOG NUMBER: 24PD-50-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°	2371	2371	2371
5°	2380	2376	2377
10°	2396	2389	2388
15°	2421	2409	2402
20°	2452	2432	2414
25°	2482	2454	2429
30°	2501	2473	2438
35°	2510	2484	2443
40°	2483	2474	2434
45°	2407	2429	2402
50°	2314	2331	2339
55°	2214	2197	2230
60°	2071	2037	2063
65°	1863	1826	1825
70°	1587	1551	1515
75°	1249	1222	1171
80°	893	867	819
85°	530	522	485



TEST NUMBER: P506675

CATALOG NUMBER: 24PD-50-PL1-L840

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.7	3.3
10°-20°	489.1	9.7
20°-30°	762.4	15.1
30°-40°	943.4	18.7
40°-50°	978.0	19.3
50°-60°	842.0	16.7
60°-70°	571.3	11.3
70°-80°	254.9	5.0
80°-90°	45.9	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°	1419.1	28.1
0°-40°	2362.5	46.7
0°-60°	4182.5	82.7
0°-90°	5054.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5054.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1762	1762	1762	1762	1762	
5°	1762	1760	1759	1759	1760	168
15°	1738	1734	1730	1726	1724	492
25°	1672	1666	1653	1641	1636	771
35°	1528	1524	1512	1496	1487	954
45°	1265	1271	1277	1272	1263	975
55°	944	944	936	947	950	842
65°	585	588	574	567	573	579
75°	240	242	235	230	225	261
85°	34	35	34	34	31	47
90°	0	0	0	0	0	



TEST NUMBER: P506675

CATALOG NUMBER: 24PD-50-PL1-L840

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1762.0	1762.0	1762.0	1762.0	1762.0
2.5°	1764.4	1760.5	1761.0	1761.5	1763.4
5°	1762.0	1759.6	1759.1	1759.1	1759.6
7.5°	1759.1	1756.2	1755.7	1755.2	1755.2
10°	1753.8	1750.9	1748.9	1748.0	1747.5
12.5°	1746.5	1743.1	1740.7	1738.8	1737.4
15°	1738.3	1733.5	1729.6	1725.8	1724.3
17.5°	1726.7	1722.4	1715.6	1709.4	1707.0
20°	1712.3	1707.9	1698.3	1689.6	1686.2
22.5°	1695.4	1689.1	1677.1	1667.4	1662.6
25°	1671.7	1665.5	1652.9	1640.9	1636.0
27.5°	1644.2	1638.5	1624.9	1610.5	1604.7
30°	1610.0	1606.1	1591.7	1575.7	1569.5
32.5°	1571.9	1568.0	1555.5	1537.6	1530.4
35°	1528.0	1523.6	1512.5	1496.1	1487.4
37.5°	1475.9	1474.4	1463.8	1446.9	1438.7
40°	1413.6	1416.5	1408.3	1393.8	1385.6
42.5°	1342.7	1349.0	1349.0	1335.5	1327.3
45°	1265.0	1270.8	1276.6	1271.8	1262.6
47.5°	1185.4	1191.7	1198.4	1200.4	1192.7
50°	1105.3	1109.2	1113.5	1122.2	1117.4
52.5°	1025.7	1027.2	1025.7	1037.3	1036.3
55°	943.7	944.2	936.5	947.1	950.5
57.5°	858.3	859.8	847.2	853.0	860.2
60°	769.5	771.0	757.0	758.0	766.6
62.5°	677.9	679.8	665.8	662.4	670.1
65°	585.2	587.6	573.7	567.4	573.2
67.5°	493.1	496.0	482.9	475.2	476.7
70°	403.3	405.8	394.2	386.9	385.0
72.5°	317.9	320.4	311.2	304.0	300.6
75°	240.3	242.2	235.0	229.7	225.3
77.5°	172.7	174.2	168.4	164.5	160.2
80°	115.3	115.8	111.9	109.5	105.7
82.5°	69.0	69.5	67.1	66.1	63.2
85°	34.3	34.7	33.8	33.8	31.4
87.5°	12.1	11.6	12.1	12.1	10.6
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)