

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: P506667

Luminaire Tested: **24PD-45-PW1-L850**

Issue Date: 3/26/2021



**Test Information**

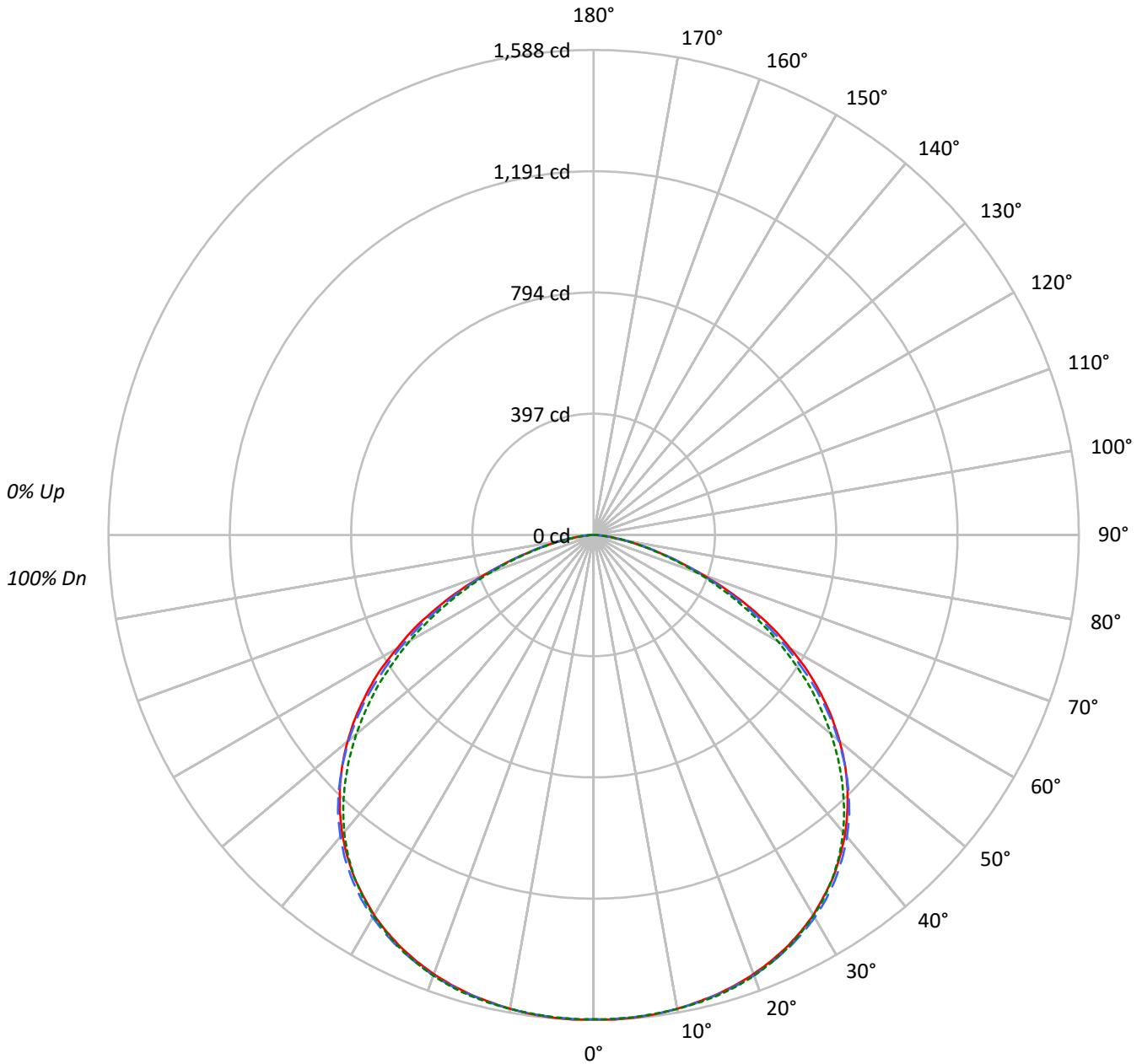
Test Method: LM-79-08  
Report Number: P506667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-45-PW1-L850  
Description: 4500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4652.0 lumens  
Efficiency: N/A  
Efficacy: 141.0 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.45  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33  
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

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CATALOG NUMBER: 24PD-45-PW1-L850

### Luminous Intensity Polar Plot





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**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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85								
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71								
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60								
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52								
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45								
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39								
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34								
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30								
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27								
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2134	2134	2134
5°	2142	2140	2140
10°	2153	2153	2153
15°	2170	2172	2176
20°	2191	2198	2199
25°	2214	2224	2220
30°	2234	2248	2238
35°	2246	2264	2244
40°	2249	2266	2232
45°	2236	2244	2190
50°	2201	2191	2122
55°	2131	2096	2022
60°	2001	1950	1873
65°	1805	1739	1668
70°	1488	1465	1411
75°	1137	1149	1103
80°	790	814	796
85°	472	492	479



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.0	3.2
10°-20°	441.0	9.5
20°-30°	689.7	14.8
30°-40°	857.9	18.4
40°-50°	901.6	19.4
50°-60°	791.4	17.0
60°-70°	538.9	11.6
70°-80°	237.7	5.1
80°-90°	42.8	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°	1281.7	27.6
0°-40°	2139.6	46.0
0°-60°	3832.6	82.4
0°-90°	4652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4652.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1586	1586	1586	1586	1586	
5°	1586	1586	1584	1582	1584	151
15°	1558	1560	1559	1559	1562	440
25°	1491	1495	1498	1497	1496	688
35°	1368	1374	1378	1372	1366	855
45°	1175	1182	1179	1160	1151	905
55°	908	905	894	870	862	809
65°	567	553	546	534	524	559
75°	219	220	221	217	212	239
85°	31	32	32	31	31	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1586.4	1586.4	1586.4	1586.4	1586.4
2.5°	1588.1	1587.2	1586.4	1585.0	1586.4
5°	1585.9	1585.5	1584.1	1582.4	1584.1
7.5°	1582.4	1582.4	1581.0	1579.7	1580.6
10°	1575.7	1577.1	1575.7	1574.4	1576.2
12.5°	1566.9	1569.1	1568.6	1568.6	1570.0
15°	1558.0	1559.8	1559.3	1559.3	1562.4
17.5°	1545.6	1547.8	1548.3	1549.2	1550.9
20°	1530.1	1533.2	1535.0	1534.5	1535.9
22.5°	1512.0	1515.5	1516.8	1517.7	1516.8
25°	1491.1	1495.1	1497.8	1496.9	1495.6
27.5°	1465.9	1470.3	1473.9	1471.7	1469.0
30°	1437.6	1441.5	1446.9	1442.9	1440.2
32.5°	1402.6	1410.1	1415.0	1410.1	1406.1
35°	1367.6	1373.8	1378.2	1371.6	1366.3
37.5°	1325.1	1332.6	1336.6	1327.3	1321.5
40°	1280.3	1287.9	1290.1	1278.1	1270.6
42.5°	1229.4	1237.8	1238.7	1221.9	1213.5
45°	1174.9	1182.5	1179.4	1159.9	1151.0
47.5°	1116.0	1121.3	1114.7	1094.8	1085.0
50°	1051.4	1054.5	1046.5	1023.0	1013.7
52.5°	983.2	982.7	972.5	949.1	938.9
55°	908.3	904.8	893.7	870.2	861.8
57.5°	831.7	820.6	808.7	788.7	777.7
60°	743.6	735.2	724.5	704.6	696.2
62.5°	660.3	645.3	636.4	618.7	611.2
65°	566.9	553.1	546.1	534.1	523.9
67.5°	473.0	462.4	457.5	449.1	439.8
70°	378.2	375.1	372.5	364.5	358.7
72.5°	294.5	293.6	293.2	288.8	283.0
75°	218.8	220.1	221.0	217.0	212.1
77.5°	155.9	158.1	157.7	155.4	154.1
80°	101.9	103.6	105.0	102.7	102.7
82.5°	61.6	63.3	62.9	63.8	62.0
85°	30.6	31.9	31.9	31.4	31.0
87.5°	11.1	11.5	11.1	11.5	11.1
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)