

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: P506664

Luminaire Tested: **24PD-45-PW1-L830**

Issue Date: 3/26/2021



**Test Information**

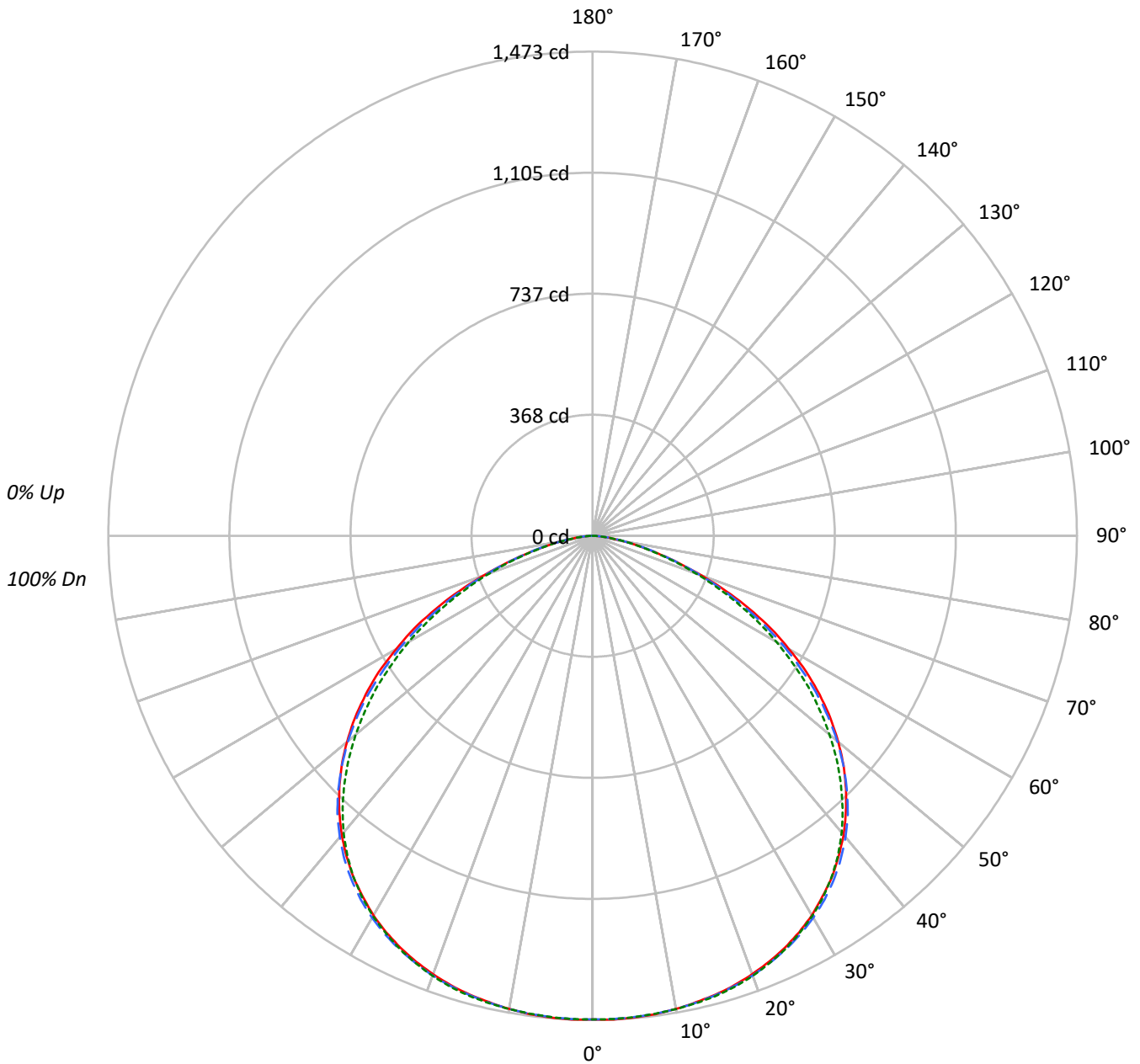
Test Method: LM-79-08  
Report Number: P506664  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-45-PW1-L830  
Description: 4500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,  
3000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4315.4 lumens  
Efficiency: N/A  
Efficacy: 130.8 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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### Luminous Intensity Polar Plot





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**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	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°	1980	1980	1980
5°	1987	1985	1985
10°	1997	1997	1998
15°	2013	2015	2019
20°	2032	2039	2040
25°	2053	2063	2060
30°	2072	2085	2076
35°	2084	2100	2082
40°	2086	2102	2070
45°	2074	2082	2032
50°	2042	2032	1968
55°	1977	1945	1875
60°	1856	1809	1738
65°	1674	1613	1547
70°	1380	1359	1309
75°	1055	1066	1023
80°	732	755	738
85°	437	457	445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.0	3.2
10°-20°	409.1	9.5
20°-30°	639.8	14.8
30°-40°	795.8	18.4
40°-50°	836.3	19.4
50°-60°	734.1	17.0
60°-70°	499.9	11.6
70°-80°	220.5	5.1
80°-90°	39.7	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°	1188.9	27.6
0°-40°	1984.8	46.0
0°-60°	3555.2	82.4
0°-90°	4315.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4315.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1472	1472	1472	1472	1472	
5°	1471	1471	1470	1468	1470	140
15°	1445	1447	1446	1446	1449	409
25°	1383	1387	1389	1389	1387	638
35°	1269	1274	1278	1272	1267	793
45°	1090	1097	1094	1076	1068	839
55°	843	839	829	807	800	751
65°	526	513	506	495	486	518
75°	203	204	205	201	197	222
85°	28	30	30	29	29	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1471.6	1471.6	1471.6	1471.6	1471.6
2.5°	1473.2	1472.4	1471.6	1470.3	1471.6
5°	1471.1	1470.7	1469.5	1467.9	1469.5
7.5°	1467.9	1467.9	1466.6	1465.4	1466.2
10°	1461.7	1462.9	1461.7	1460.5	1462.1
12.5°	1453.5	1455.5	1455.1	1455.1	1456.4
15°	1445.3	1446.9	1446.5	1446.5	1449.4
17.5°	1433.8	1435.8	1436.2	1437.0	1438.7
20°	1419.4	1422.3	1423.9	1423.5	1424.7
22.5°	1402.5	1405.8	1407.1	1407.9	1407.1
25°	1383.2	1386.9	1389.4	1388.6	1387.3
27.5°	1359.8	1363.9	1367.2	1365.2	1362.7
30°	1333.5	1337.2	1342.1	1338.4	1336.0
32.5°	1301.1	1308.0	1312.6	1308.0	1304.3
35°	1268.6	1274.4	1278.5	1272.3	1267.4
37.5°	1229.2	1236.2	1239.9	1231.2	1225.9
40°	1187.7	1194.7	1196.7	1185.6	1178.6
42.5°	1140.4	1148.2	1149.1	1133.4	1125.6
45°	1089.9	1096.9	1094.0	1075.9	1067.7
47.5°	1035.3	1040.2	1034.0	1015.5	1006.5
50°	975.3	978.2	970.8	949.0	940.4
52.5°	912.0	911.6	902.2	880.4	870.9
55°	842.6	839.3	829.0	807.3	799.5
57.5°	771.5	761.2	750.2	731.7	721.4
60°	689.8	682.0	672.1	653.6	645.8
62.5°	612.5	598.6	590.3	573.9	566.9
65°	525.8	513.1	506.5	495.4	486.0
67.5°	438.8	428.9	424.4	416.6	407.9
70°	350.8	348.0	345.5	338.1	332.8
72.5°	273.2	272.4	272.0	267.9	262.5
75°	202.9	204.2	205.0	201.3	196.8
77.5°	144.6	146.7	146.3	144.2	143.0
80°	94.5	96.1	97.4	95.3	95.3
82.5°	57.1	58.7	58.3	59.2	57.5
85°	28.3	29.6	29.6	29.2	28.8
87.5°	10.3	10.7	10.3	10.7	10.3
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)