

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: P506637

Luminaire Tested: **24PD-40-PW1-L830**

Issue Date: 3/26/2021



**Test Information**

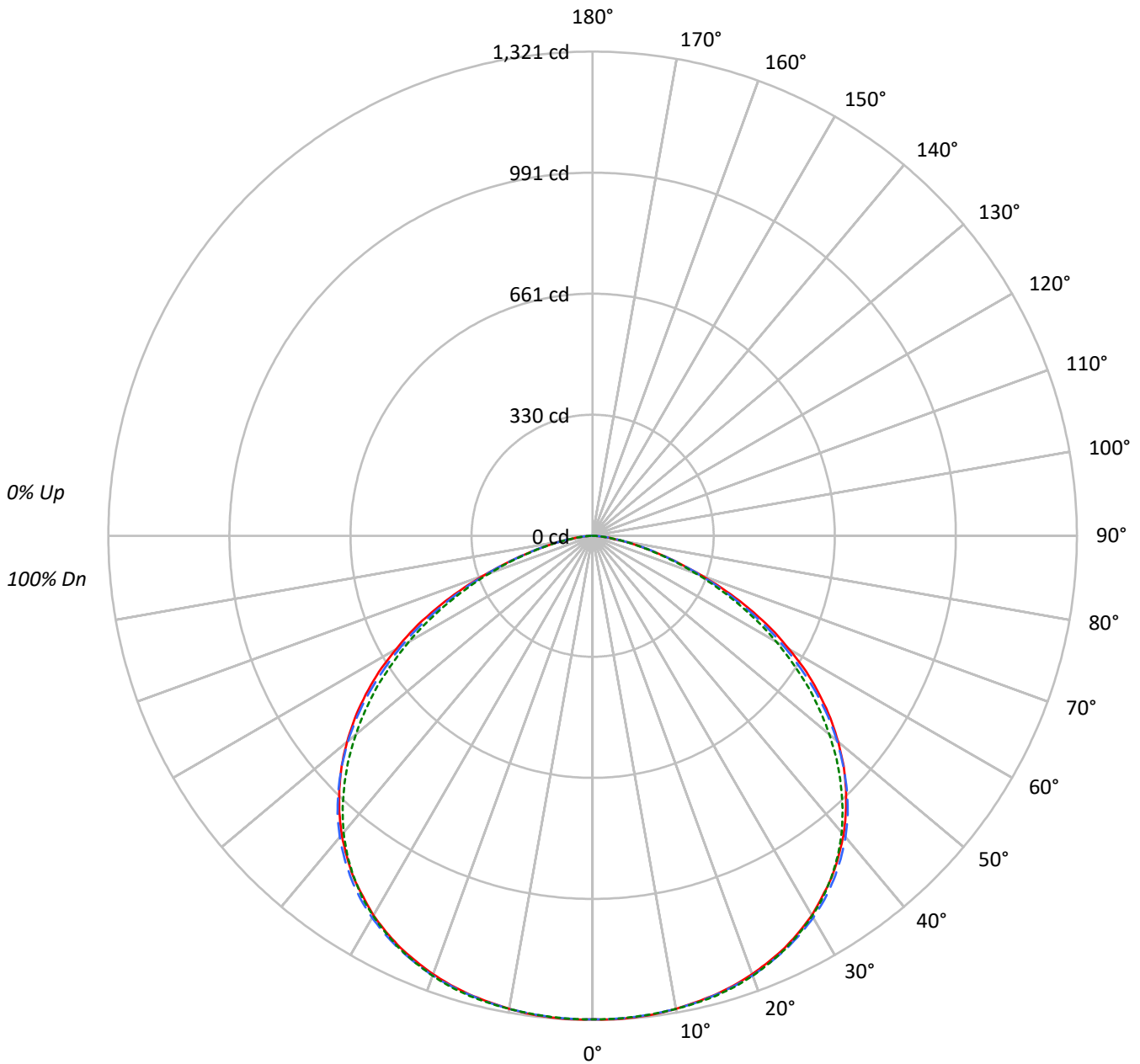
Test Method: LM-79-08  
Report Number: P506637  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-40-PW1-L830  
Description: 4000 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: 3869.1 lumens  
Efficiency: N/A  
Efficacy: 131.6 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): 29.4  
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°	1775	1775	1775
5°	1781	1780	1780
10°	1791	1791	1791
15°	1805	1807	1810
20°	1822	1828	1829
25°	1841	1849	1847
30°	1858	1870	1861
35°	1868	1883	1866
40°	1870	1885	1856
45°	1859	1866	1822
50°	1830	1822	1765
55°	1772	1744	1681
60°	1664	1622	1558
65°	1501	1446	1387
70°	1238	1219	1174
75°	946	955	917
80°	656	676	662
85°	392	409	398



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.6	3.2
10°-20°	366.8	9.5
20°-30°	573.6	14.8
30°-40°	713.5	18.4
40°-50°	749.9	19.4
50°-60°	658.2	17.0
60°-70°	448.2	11.6
70°-80°	197.7	5.1
80°-90°	35.6	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°	1066.0	27.6
0°-40°	1779.5	46.0
0°-60°	3187.6	82.4
0°-90°	3869.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3869.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1319	1319	1319	1319	1319	
5°	1319	1319	1318	1316	1318	126
15°	1296	1297	1297	1297	1300	366
25°	1240	1244	1246	1245	1244	572
35°	1137	1143	1146	1141	1136	711
45°	977	984	981	965	957	753
55°	756	752	743	724	717	673
65°	472	460	454	444	436	465
75°	182	183	184	180	176	199
85°	25	26	26	26	26	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1319.4	1319.4	1319.4	1319.4	1319.4
2.5°	1320.9	1320.1	1319.4	1318.3	1319.4
5°	1319.0	1318.7	1317.6	1316.1	1317.6
7.5°	1316.1	1316.1	1315.0	1313.9	1314.6
10°	1310.6	1311.7	1310.6	1309.4	1310.9
12.5°	1303.2	1305.0	1304.7	1304.7	1305.8
15°	1295.8	1297.3	1296.9	1296.9	1299.5
17.5°	1285.5	1287.3	1287.7	1288.5	1289.9
20°	1272.6	1275.2	1276.7	1276.3	1277.4
22.5°	1257.5	1260.5	1261.6	1262.3	1261.6
25°	1240.2	1243.5	1245.7	1245.0	1243.9
27.5°	1219.2	1222.9	1225.8	1224.0	1221.8
30°	1195.6	1198.9	1203.4	1200.1	1197.8
32.5°	1166.5	1172.8	1176.8	1172.8	1169.5
35°	1137.4	1142.6	1146.3	1140.7	1136.3
37.5°	1102.1	1108.3	1111.7	1103.9	1099.1
40°	1064.9	1071.1	1073.0	1063.0	1056.8
42.5°	1022.5	1029.5	1030.2	1016.3	1009.3
45°	977.2	983.5	980.9	964.7	957.3
47.5°	928.2	932.6	927.1	910.5	902.4
50°	874.4	877.0	870.4	850.9	843.1
52.5°	817.7	817.3	808.9	789.4	780.9
55°	755.5	752.5	743.3	723.8	716.8
57.5°	691.7	682.5	672.6	656.0	646.8
60°	618.4	611.4	602.6	586.0	579.0
62.5°	549.2	536.7	529.3	514.6	508.3
65°	471.5	460.1	454.2	444.2	435.7
67.5°	393.4	384.5	380.5	373.5	365.8
70°	314.6	312.0	309.8	303.1	298.4
72.5°	244.9	244.2	243.8	240.2	235.4
75°	182.0	183.1	183.8	180.5	176.4
77.5°	129.7	131.5	131.1	129.3	128.2
80°	84.7	86.2	87.3	85.5	85.5
82.5°	51.2	52.7	52.3	53.0	51.6
85°	25.4	26.5	26.5	26.2	25.8
87.5°	9.2	9.6	9.2	9.6	9.2
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)