

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: P506286

Luminaire Tested: **22PD-40-PW1-L830**

Issue Date: 3/26/2021



**Test Information**

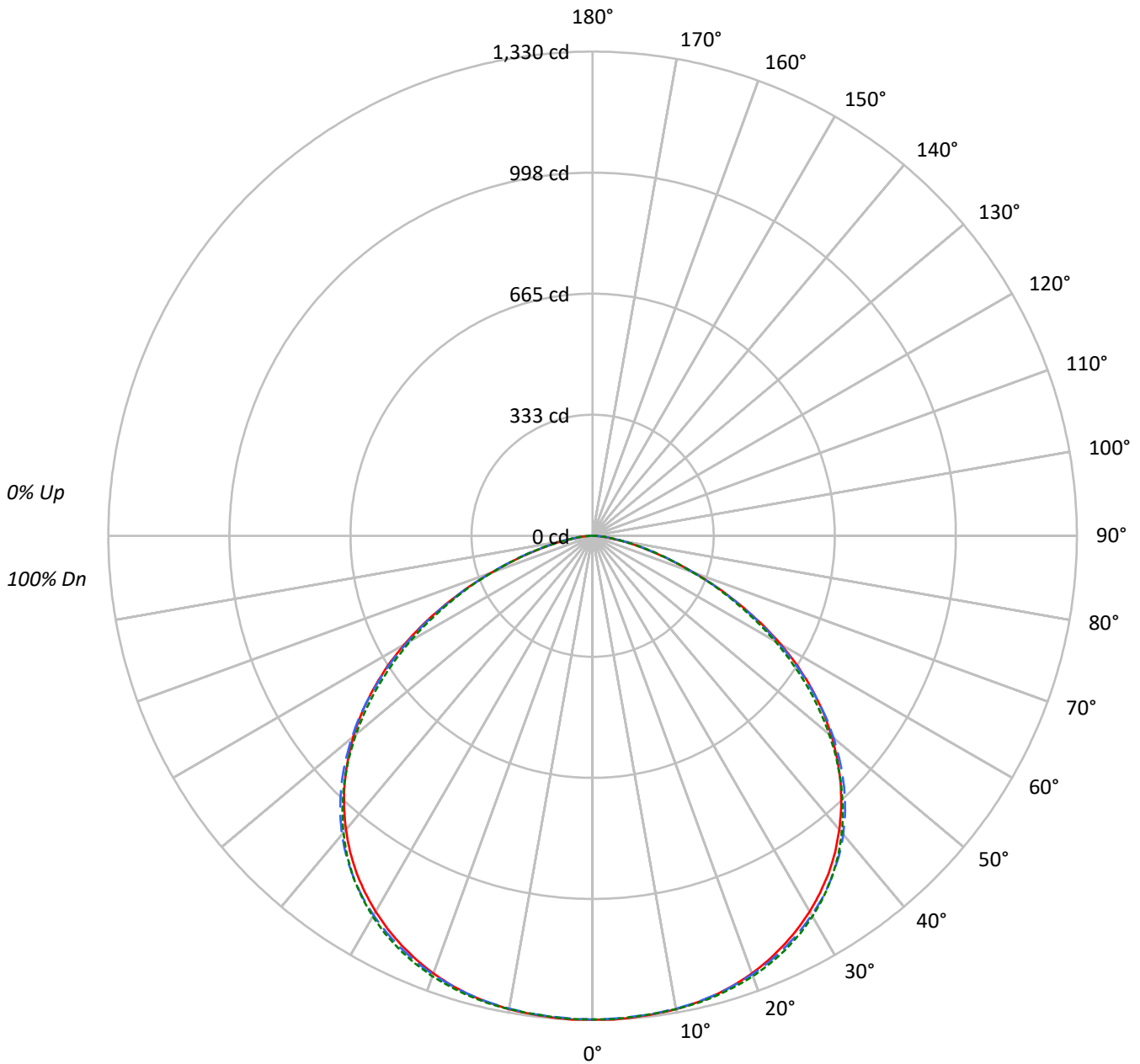
Test Method: LM-79-08  
Report Number: P506286  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-40-PW1-L830  
Description: 4000 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,  
3000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3841.0 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 32.6  
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: P506286  
CATALOG NUMBER: 22PD-40-PW1-L830

### Luminous Intensity Polar Plot





TEST NUMBER: P506286

CATALOG NUMBER: 22PD-40-PW1-L830

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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				100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72				72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61				61
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52				52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45				45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39				39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35				35
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28				28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				25

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

	0°	45°	90°
0°	3576	3576	3576
5°	3585	3580	3582
10°	3609	3604	3607
15°	3637	3636	3646
20°	3664	3672	3687
25°	3686	3707	3724
30°	3704	3739	3753
35°	3713	3761	3763
40°	3702	3762	3740
45°	3665	3718	3672
50°	3591	3616	3551
55°	3451	3436	3371
60°	3212	3177	3111
65°	2833	2806	2752
70°	2320	2331	2283
75°	1758	1817	1802
80°	1274	1325	1303
85°	837	865	923



TEST NUMBER: P506286

CATALOG NUMBER: 22PD-40-PW1-L830

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.3	3.3
10°-20°	369.0	9.6
20°-30°	575.3	15.0
30°-40°	713.1	18.6
40°-50°	746.2	19.4
50°-60°	650.2	16.9
60°-70°	435.6	11.3
70°-80°	188.8	4.9
80°-90°	36.4	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°	1070.7	27.9
0°-40°	1783.8	46.4
0°-60°	3180.3	82.8
0°-90°	3841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3841.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1327	1326	1325	1325	1326	126
15°	1306	1304	1305	1306	1309	369
25°	1241	1242	1248	1252	1254	572
35°	1130	1134	1145	1146	1146	707
45°	963	968	977	969	965	742
55°	736	735	732	724	718	655
65°	445	443	441	436	432	440
75°	169	172	175	173	173	186
85°	27	29	28	28	30	35
90°	0	0	0	0	0	



TEST NUMBER: P506286

CATALOG NUMBER: 22PD-40-PW1-L830

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1328.8	1328.8	1328.8	1328.8	1328.8
2.5°	1330.2	1327.8	1327.3	1327.3	1328.8
5°	1327.3	1325.9	1325.4	1325.0	1325.9
7.5°	1324.5	1322.6	1323.1	1322.1	1323.1
10°	1320.7	1318.8	1318.8	1318.8	1320.2
12.5°	1314.0	1312.6	1313.1	1314.0	1315.9
15°	1305.5	1303.6	1305.0	1306.4	1308.8
17.5°	1293.6	1292.2	1294.6	1297.0	1298.9
20°	1279.4	1278.0	1282.2	1285.6	1287.5
22.5°	1261.8	1261.3	1267.0	1270.8	1272.3
25°	1241.4	1241.9	1248.5	1252.3	1254.2
27.5°	1218.1	1219.1	1227.6	1230.9	1232.8
30°	1192.0	1194.4	1203.4	1206.2	1207.7
32.5°	1162.6	1165.9	1176.8	1178.7	1178.7
35°	1130.3	1134.5	1145.0	1146.4	1145.5
37.5°	1094.2	1098.9	1110.8	1108.9	1107.5
40°	1053.8	1059.0	1070.9	1067.1	1064.7
42.5°	1010.6	1015.8	1026.3	1020.6	1017.2
45°	963.1	968.3	976.9	968.8	965.0
47.5°	911.8	918.0	922.3	913.2	908.5
50°	857.7	859.6	863.8	853.4	848.2
52.5°	798.8	798.8	802.1	790.7	784.5
55°	735.6	735.1	732.3	724.2	718.5
57.5°	668.7	665.8	663.9	655.4	648.7
60°	596.9	592.7	590.3	583.2	578.0
62.5°	521.9	519.5	516.7	511.0	505.3
65°	445.0	442.6	440.7	436.4	432.2
67.5°	368.5	367.1	367.1	364.2	363.8
70°	294.9	295.9	296.3	296.3	290.2
72.5°	228.4	228.9	231.3	229.4	228.9
75°	169.1	171.9	174.8	173.3	173.3
77.5°	121.6	125.8	125.8	124.9	123.5
80°	82.2	84.1	85.5	85.0	84.1
82.5°	52.2	53.7	52.2	53.2	53.7
85°	27.1	29.0	28.0	28.5	29.9
87.5°	9.0	10.0	10.4	10.0	10.0
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)