

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: P506641

Luminaire Tested: **24PD-40-PW1-L927**

Issue Date: 3/26/2021



**Test Information**

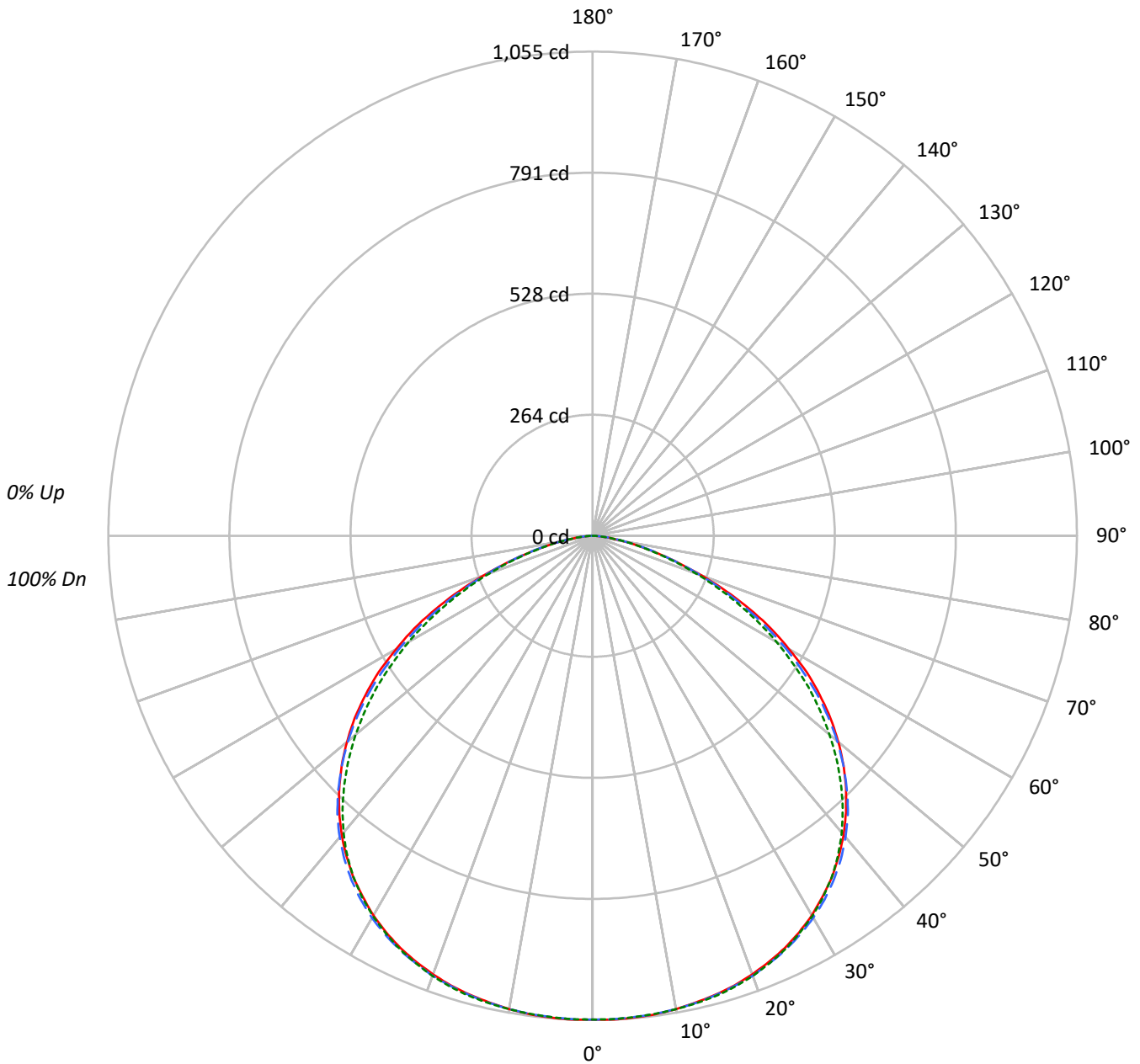
Test Method: LM-79-08  
Report Number: P506641  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-40-PW1-L927  
Description: 4000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 90 CRI,  
2700K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3091.3 lumens  
Efficiency: N/A  
Efficacy: 105.1 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

TEST NUMBER: P506641  
CATALOG NUMBER: 24PD-40-PW1-L927

### Luminous Intensity Polar Plot





TEST NUMBER: P506641

CATALOG NUMBER: 24PD-40-PW1-L927

**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°	1418	1418	1418
5°	1423	1422	1422
10°	1431	1431	1431
15°	1442	1443	1446
20°	1456	1460	1461
25°	1471	1478	1475
30°	1484	1494	1487
35°	1493	1504	1491
40°	1494	1506	1483
45°	1486	1491	1455
50°	1462	1456	1410
55°	1416	1393	1343
60°	1330	1296	1245
65°	1199	1155	1108
70°	989	974	938
75°	756	764	733
80°	525	540	529
85°	313	327	318



TEST NUMBER: P506641

CATALOG NUMBER: 24PD-40-PW1-L927

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.3	3.2
10°-20°	293.1	9.5
20°-30°	458.3	14.8
30°-40°	570.1	18.4
40°-50°	599.1	19.4
50°-60°	525.9	17.0
60°-70°	358.1	11.6
70°-80°	158.0	5.1
80°-90°	28.5	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°	851.7	27.6
0°-40°	1421.8	46.0
0°-60°	2546.8	82.4
0°-90°	3091.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3091.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1054	1054	1053	1052	1053	100
15°	1035	1036	1036	1036	1038	293
25°	991	994	995	995	994	457
35°	909	913	916	911	908	568
45°	781	786	784	771	765	601
55°	604	601	594	578	573	538
65°	377	368	363	355	348	371
75°	145	146	147	144	141	159
85°	20	21	21	21	21	28
90°	0	0	0	0	0	



TEST NUMBER: P506641

CATALOG NUMBER: 24PD-40-PW1-L927

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1054.1	1054.1	1054.1	1054.1	1054.1
2.5°	1055.3	1054.7	1054.1	1053.3	1054.1
5°	1053.9	1053.6	1052.7	1051.5	1052.7
7.5°	1051.5	1051.5	1050.6	1049.7	1050.3
10°	1047.1	1048.0	1047.1	1046.2	1047.4
12.5°	1041.2	1042.7	1042.4	1042.4	1043.3
15°	1035.3	1036.5	1036.2	1036.2	1038.3
17.5°	1027.1	1028.5	1028.8	1029.4	1030.6
20°	1016.8	1018.8	1020.0	1019.7	1020.6
22.5°	1004.7	1007.1	1007.9	1008.5	1007.9
25°	990.9	993.5	995.3	994.7	993.8
27.5°	974.1	977.0	979.4	977.9	976.2
30°	955.3	957.9	961.4	958.8	957.0
32.5°	932.0	937.0	940.3	937.0	934.4
35°	908.8	912.9	915.8	911.4	907.9
37.5°	880.5	885.5	888.2	882.0	878.2
40°	850.8	855.8	857.3	849.3	844.3
42.5°	816.9	822.5	823.1	811.9	806.4
45°	780.7	785.8	783.7	770.7	764.9
47.5°	741.6	745.1	740.7	727.5	721.0
50°	698.6	700.7	695.4	679.8	673.6
52.5°	653.3	653.0	646.3	630.7	623.9
55°	603.6	601.2	593.9	578.3	572.7
57.5°	552.7	545.3	537.4	524.1	516.8
60°	494.1	488.5	481.5	468.2	462.6
62.5°	438.8	428.8	422.9	411.1	406.1
65°	376.7	367.6	362.9	354.9	348.1
67.5°	314.3	307.2	304.0	298.4	292.2
70°	251.3	249.3	247.5	242.2	238.4
72.5°	195.7	195.1	194.8	191.9	188.1
75°	145.4	146.3	146.9	144.2	141.0
77.5°	103.6	105.1	104.8	103.3	102.4
80°	67.7	68.9	69.7	68.3	68.3
82.5°	40.9	42.1	41.8	42.4	41.2
85°	20.3	21.2	21.2	20.9	20.6
87.5°	7.4	7.7	7.4	7.7	7.4
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)