

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: P505921

Luminaire Tested: **14PD-40-PL1-L927**

Issue Date: 3/26/2021



**Test Information**

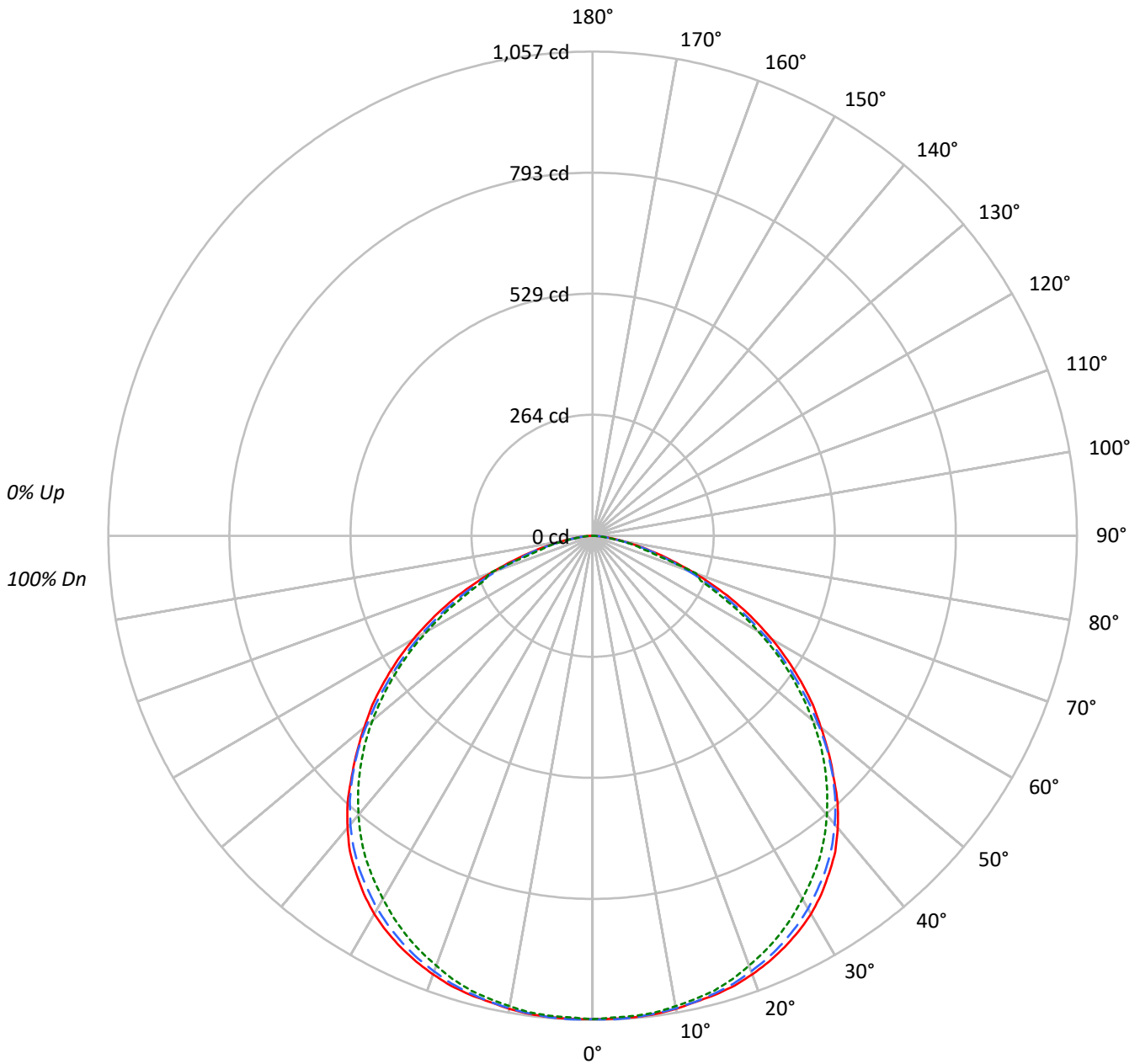
Test Method: LM-79-08  
Report Number: P505921  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-40-PL1-L927  
Description: 4000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,  
2700K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2933.4 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.8  
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72																			
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61																			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52																			
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45																			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40																			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35																			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31																			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28																			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25																			

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

	0°	45°	90°
0°	2840	2840	2840
5°	2850	2851	2842
10°	2865	2862	2849
15°	2889	2881	2863
20°	2918	2898	2860
25°	2943	2914	2858
30°	2962	2921	2844
35°	2955	2917	2833
40°	2924	2889	2793
45°	2830	2821	2731
50°	2722	2698	2625
55°	2605	2529	2472
60°	2433	2324	2246
65°	2192	2055	1945
70°	1833	1719	1888
75°	1446	1392	1205
80°	1041	925	944
85°	661	556	519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.4	3.4
10°-20°	291.7	9.9
20°-30°	451.0	15.4
30°-40°	552.0	18.8
40°-50°	565.9	19.3
50°-60°	481.9	16.4
60°-70°	322.1	11.0
70°-80°	142.7	4.9
80°-90°	25.8	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°	843.0	28.7
0°-40°	1395.0	47.6
0°-60°	2442.8	83.3
0°-90°	2933.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2933.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1055	1052	1055	1055	1052	101
15°	1037	1033	1034	1031	1028	293
25°	991	988	981	968	963	457
35°	900	897	888	868	862	562
45°	744	746	741	724	718	574
55°	555	552	539	528	527	495
65°	344	341	323	308	305	339
75°	139	141	134	134	116	151
85°	21	21	18	17	17	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1055.4	1055.4	1055.4	1055.4	1055.4
2.5°	1055.4	1053.7	1056.6	1057.8	1052.5
5°	1054.9	1052.5	1055.4	1054.9	1052.0
7.5°	1053.1	1049.1	1052.0	1050.8	1049.6
10°	1048.5	1045.0	1047.3	1045.6	1042.7
12.5°	1042.1	1039.8	1041.5	1039.8	1035.7
15°	1036.9	1033.4	1034.0	1031.1	1027.6
17.5°	1029.9	1024.7	1024.7	1018.9	1014.9
20°	1018.9	1014.3	1012.0	1003.9	998.6
22.5°	1006.2	1002.7	998.1	987.6	981.8
25°	991.1	987.6	981.3	968.5	962.7
27.5°	973.7	969.1	962.1	947.1	940.1
30°	953.4	947.6	940.1	923.3	915.2
32.5°	928.5	924.4	914.6	897.2	889.7
35°	899.5	897.2	887.9	868.2	862.4
37.5°	870.0	865.3	857.2	836.4	830.6
40°	832.3	829.4	822.4	802.2	795.2
42.5°	791.7	790.0	784.2	765.1	757.5
45°	743.6	745.9	741.3	724.5	717.5
47.5°	697.8	696.7	694.9	679.9	674.1
50°	650.3	648.0	644.5	632.3	627.1
52.5°	605.7	601.0	591.8	581.3	577.9
55°	555.2	552.4	539.0	528.0	526.8
57.5°	504.2	502.5	486.3	473.5	473.5
60°	452.1	449.8	431.8	418.5	417.3
62.5°	397.6	395.9	377.3	362.2	362.8
65°	344.3	341.4	322.8	308.3	305.4
67.5°	288.6	287.5	269.5	256.2	255.0
70°	233.0	233.0	218.5	206.9	240.0
72.5°	183.7	182.0	170.4	165.2	157.6
75°	139.1	140.8	133.9	134.5	115.9
77.5°	99.1	96.2	93.3	86.9	92.2
80°	67.2	65.5	59.7	58.0	60.9
82.5°	41.7	42.3	37.1	33.6	33.0
85°	21.4	20.9	18.0	17.4	16.8
87.5°	8.1	8.7	7.5	7.0	6.4
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)