

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: P505975

Luminaire Tested: **14PD-50-PL1-L927**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P505975  
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-50-PL1-L927  
Description: 5000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,  
2700K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

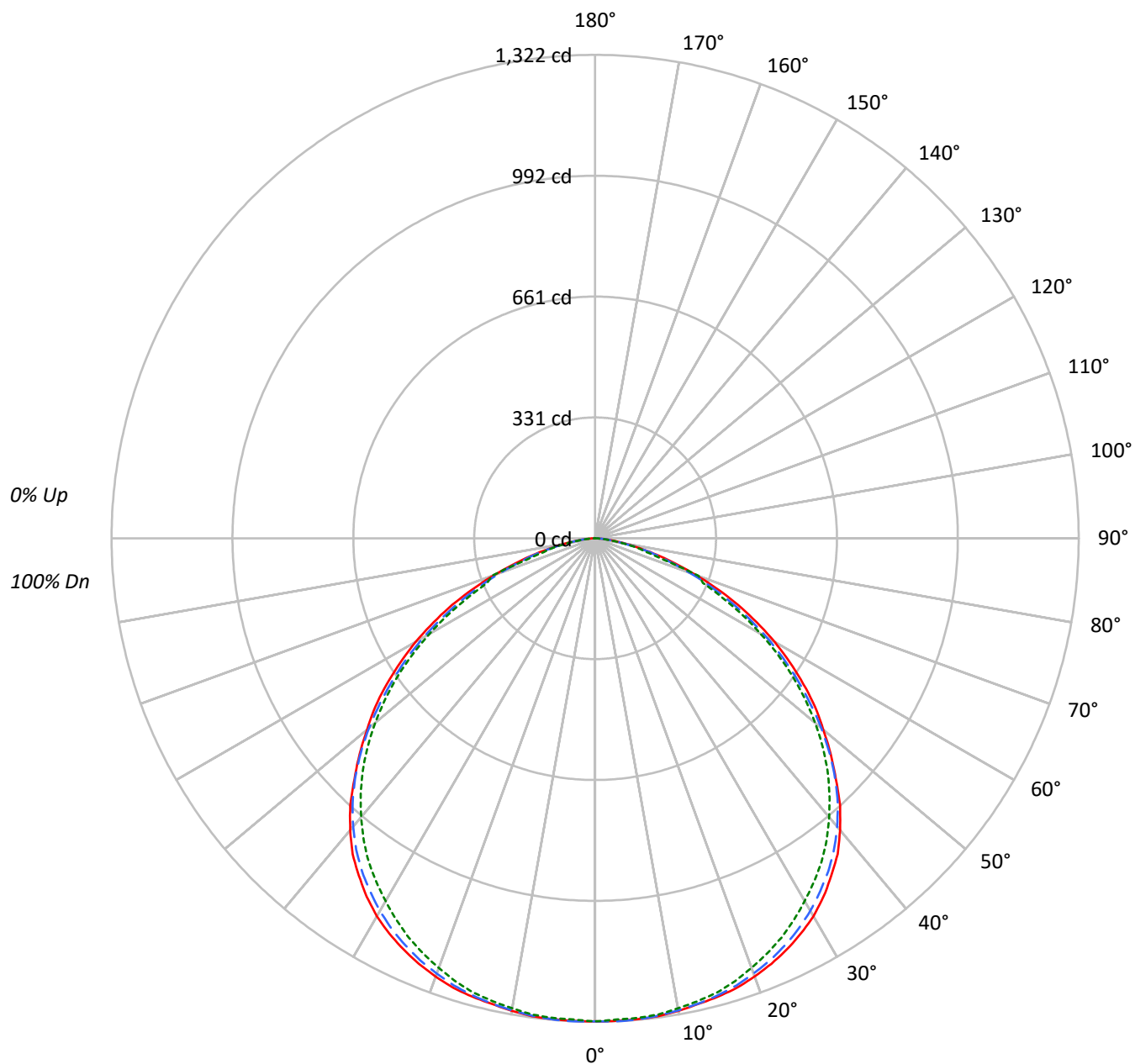
Lumens per Lamp: N/A  
Luminaire Lumens: 3671.6 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 48.6  
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

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### Luminous Intensity Polar Plot





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

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	3555	3555	3555
5°	3566	3568	3557
10°	3586	3582	3566
15°	3616	3606	3583
20°	3652	3627	3579
25°	3683	3647	3578
30°	3708	3656	3559
35°	3699	3651	3546
40°	3659	3616	3496
45°	3542	3531	3418
50°	3407	3377	3286
55°	3261	3165	3094
60°	3045	2909	2811
65°	2744	2573	2434
70°	2294	2152	2363
75°	1810	1743	1509
80°	1305	1158	1181
85°	827	695	648



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.6	3.4
10°-20°	365.1	9.9
20°-30°	564.5	15.4
30°-40°	690.9	18.8
40°-50°	708.2	19.3
50°-60°	603.2	16.4
60°-70°	403.1	11.0
70°-80°	178.7	4.9
80°-90°	32.3	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
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0°-30°	1055.2	28.7
0°-40°	1746.0	47.6
0°-60°	3057.5	83.3
0°-90°	3671.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3671.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1320	1317	1321	1320	1317	126
15°	1298	1294	1294	1291	1286	367
25°	1240	1236	1228	1212	1205	572
35°	1126	1123	1111	1087	1080	704
45°	931	934	928	907	898	718
55°	695	691	675	661	659	620
65°	431	427	404	386	382	425
75°	174	176	168	168	145	189
85°	27	26	22	22	21	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1321.0	1321.0	1321.0	1321.0	1321.0
2.5°	1321.0	1318.9	1322.5	1323.9	1317.4
5°	1320.3	1317.4	1321.0	1320.3	1316.7
7.5°	1318.1	1313.0	1316.7	1315.2	1313.8
10°	1312.3	1308.0	1310.9	1308.7	1305.1
12.5°	1304.3	1301.4	1303.6	1301.4	1296.4
15°	1297.8	1293.5	1294.2	1290.6	1286.2
17.5°	1289.1	1282.6	1282.6	1275.3	1270.2
20°	1275.3	1269.5	1266.6	1256.5	1249.9
22.5°	1259.4	1255.0	1249.2	1236.1	1228.9
25°	1240.5	1236.1	1228.2	1212.2	1205.0
27.5°	1218.7	1212.9	1204.2	1185.4	1176.7
30°	1193.3	1186.1	1176.7	1155.6	1145.5
32.5°	1162.2	1157.1	1144.7	1123.0	1113.6
35°	1125.9	1123.0	1111.4	1086.7	1079.5
37.5°	1088.9	1083.1	1072.9	1046.8	1039.6
40°	1041.7	1038.1	1029.4	1004.0	995.3
42.5°	991.0	988.8	981.5	957.6	948.2
45°	930.7	933.6	927.8	906.8	898.1
47.5°	873.4	872.0	869.8	850.9	843.7
50°	813.9	811.0	806.7	791.5	784.9
52.5°	758.1	752.3	740.7	727.6	723.3
55°	695.0	691.3	674.7	660.9	659.4
57.5°	631.1	629.0	608.6	592.7	592.7
60°	565.8	562.9	540.5	523.8	522.3
62.5°	497.7	495.5	472.3	453.4	454.1
65°	430.9	427.3	404.1	385.9	382.3
67.5°	361.3	359.8	337.3	320.6	319.2
70°	291.6	291.6	273.5	259.0	300.3
72.5°	230.0	227.8	213.3	206.8	197.3
75°	174.1	176.3	167.6	168.3	145.1
77.5°	124.1	120.4	116.8	108.8	115.3
80°	84.2	82.0	74.7	72.5	76.2
82.5°	52.2	53.0	46.4	42.1	41.4
85°	26.8	26.1	22.5	21.8	21.0
87.5°	10.2	10.9	9.4	8.7	8.0
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)