

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: P505978

Luminaire Tested: **14PD-50-PL1-L940**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P505978  
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-L940  
Description: 5000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

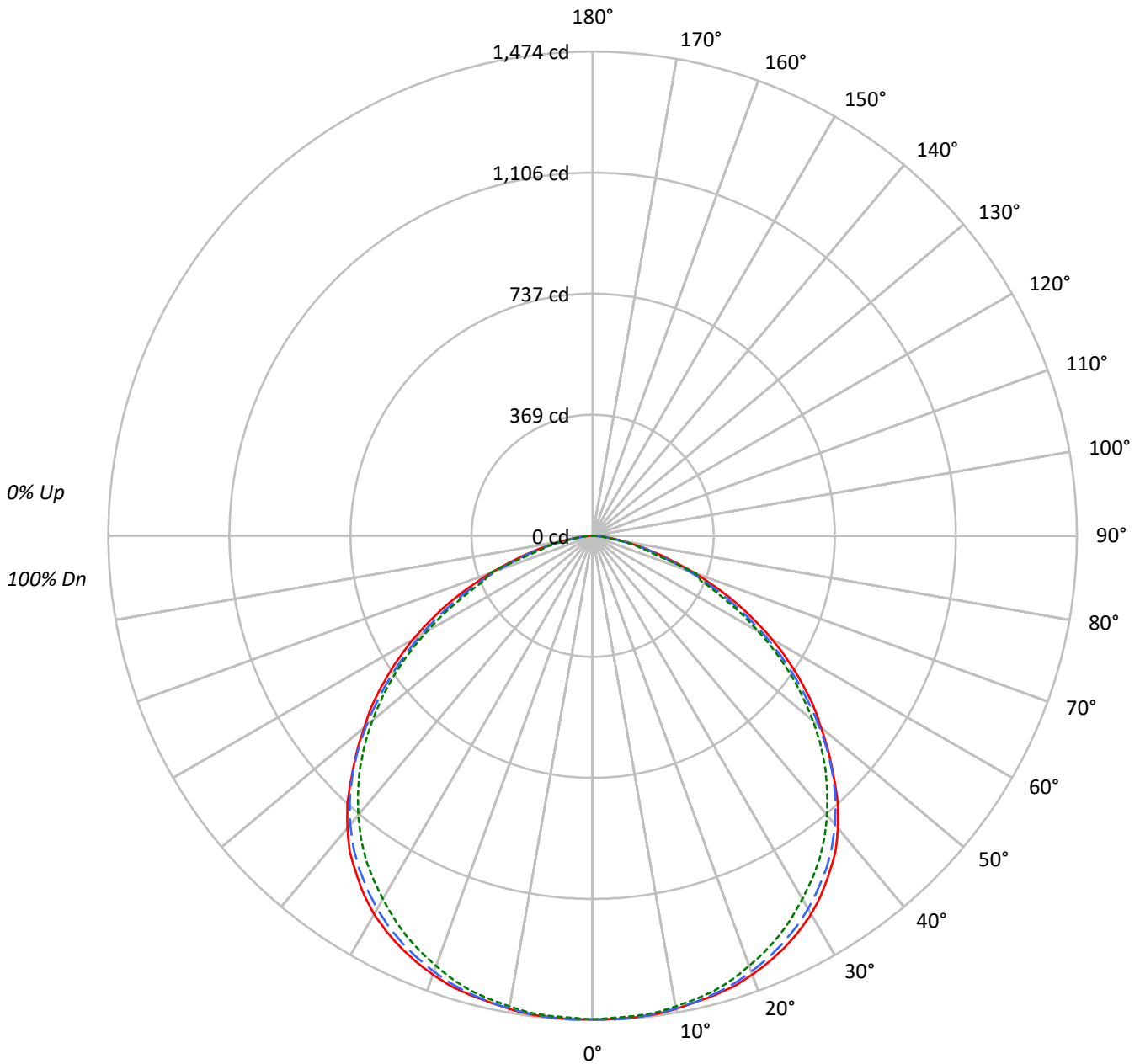
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4092.5 lumens  
Efficiency: N/A  
Efficacy: 84.2 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									
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°	3962	3962	3962
5°	3975	3978	3964
10°	3997	3993	3975
15°	4030	4019	3994
20°	4071	4043	3990
25°	4105	4065	3988
30°	4133	4076	3967
35°	4123	4070	3953
40°	4079	4031	3897
45°	3948	3936	3810
50°	3798	3764	3663
55°	3635	3528	3448
60°	3394	3242	3133
65°	3058	2868	2713
70°	2558	2398	2634
75°	2018	1942	1681
80°	1454	1291	1316
85°	923	775	722



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.0	3.4
10°-20°	406.9	9.9
20°-30°	629.2	15.4
30°-40°	770.1	18.8
40°-50°	789.5	19.3
50°-60°	672.4	16.4
60°-70°	449.3	11.0
70°-80°	199.1	4.9
80°-90°	36.0	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°	1176.1	28.7
0°-40°	1946.2	47.6
0°-60°	3408.0	83.3
0°-90°	4092.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4092.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1472	1472	1472	1472	1472	
5°	1472	1468	1472	1472	1468	140
15°	1447	1442	1443	1438	1434	409
25°	1383	1378	1369	1351	1343	638
35°	1255	1252	1239	1211	1203	785
45°	1038	1041	1034	1011	1001	801
55°	775	771	752	737	735	691
65°	480	476	450	430	426	473
75°	194	196	187	188	162	210
85°	30	29	25	24	23	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1472.5	1472.5	1472.5	1472.5	1472.5
2.5°	1472.5	1470.1	1474.1	1475.7	1468.5
5°	1471.7	1468.5	1472.5	1471.7	1467.6
7.5°	1469.3	1463.6	1467.6	1466.0	1464.4
10°	1462.8	1457.9	1461.2	1458.7	1454.7
12.5°	1453.9	1450.7	1453.1	1450.7	1445.0
15°	1446.6	1441.8	1442.6	1438.5	1433.7
17.5°	1436.9	1429.6	1429.6	1421.6	1415.9
20°	1421.6	1415.1	1411.8	1400.5	1393.3
22.5°	1403.8	1398.9	1392.4	1377.9	1369.8
25°	1382.7	1377.9	1369.0	1351.2	1343.1
27.5°	1358.5	1352.0	1342.3	1321.3	1311.6
30°	1330.2	1322.1	1311.6	1288.1	1276.8
32.5°	1295.4	1289.7	1276.0	1251.7	1241.2
35°	1255.0	1251.7	1238.8	1211.3	1203.2
37.5°	1213.7	1207.3	1195.9	1166.8	1158.8
40°	1161.2	1157.1	1147.4	1119.1	1109.4
42.5°	1104.6	1102.1	1094.1	1067.4	1056.9
45°	1037.5	1040.7	1034.2	1010.8	1001.1
47.5°	973.6	972.0	969.5	948.5	940.4
50°	907.3	904.0	899.2	882.2	874.9
52.5°	845.0	838.5	825.6	811.0	806.2
55°	774.7	770.6	752.0	736.7	735.0
57.5°	703.5	701.1	678.4	660.6	660.6
60°	630.7	627.5	602.4	583.8	582.2
62.5°	554.7	552.3	526.4	505.4	506.2
65°	480.3	476.3	450.4	430.2	426.1
67.5°	402.7	401.1	376.0	357.4	355.8
70°	325.1	325.1	304.8	288.7	334.8
72.5°	256.3	253.9	237.7	230.5	219.9
75°	194.1	196.5	186.8	187.6	161.7
77.5°	138.3	134.2	130.2	121.3	128.6
80°	93.8	91.4	83.3	80.9	84.9
82.5°	58.2	59.0	51.8	46.9	46.1
85°	29.9	29.1	25.1	24.3	23.4
87.5°	11.3	12.1	10.5	9.7	8.9
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)