

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: P505987

Luminaire Tested: **14PD-50-PR1-L940**

Issue Date: 3/26/2021

**Test Information**

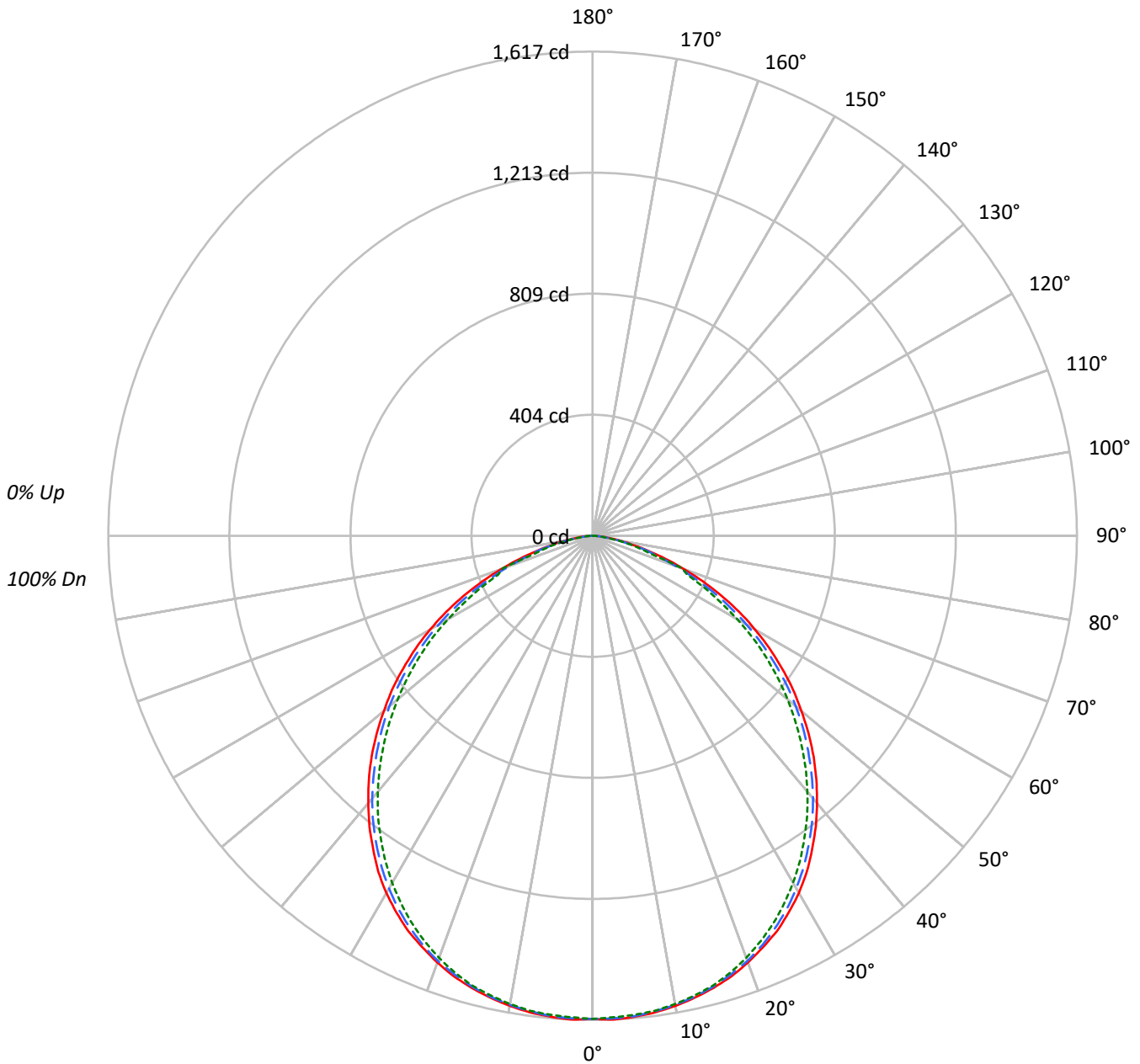
Test Method: LM-79-08  
Report Number: P505987  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-50-PR1-L940  
Description: 5000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 90 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4152.0 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34  
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	100	96	99	96	93	95	93	90	91	90	88	86																			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73																			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62																			
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53																			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46																			
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41																			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36																			
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32																			
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29																			
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26																			

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

	0°	45°	90°
0°	4342	4342	4342
5°	4356	4350	4339
10°	4356	4347	4339
15°	4354	4341	4332
20°	4343	4327	4295
25°	4325	4287	4240
30°	4281	4226	4159
35°	4197	4135	4051
40°	4093	4023	3919
45°	3972	3874	3753
50°	3807	3707	3556
55°	3621	3479	3314
60°	3372	3195	2998
65°	3028	2814	2630
70°	2546	2320	2508
75°	1961	1886	1695
80°	1412	1263	1201
85°	865	741	667



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.9	3.7
10°-20°	439.3	10.6
20°-30°	663.6	16.0
30°-40°	785.1	18.9
40°-50°	782.8	18.9
50°-60°	661.3	15.9
60°-70°	440.6	10.6
70°-80°	191.4	4.6
80°-90°	34.7	0.8
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°	1255.9	30.2
0°-40°	2041.0	49.2
0°-60°	3485.2	83.9
0°-90°	4152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4152.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1613	1613	1613	1613	1613	
5°	1613	1606	1610	1609	1606	153
15°	1563	1556	1558	1556	1555	441
25°	1457	1447	1444	1431	1428	670
35°	1278	1269	1259	1242	1233	799
45°	1044	1034	1018	996	986	804
55°	772	766	742	718	706	689
65°	476	470	442	423	413	470
75°	189	185	181	175	163	206
85°	28	29	24	22	22	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1613.4	1613.4	1613.4	1613.4	1613.4
2.5°	1617.3	1610.2	1613.4	1613.4	1609.4
5°	1612.6	1606.2	1610.2	1608.6	1606.2
7.5°	1605.4	1599.0	1601.4	1600.6	1599.8
10°	1594.2	1587.8	1591.0	1589.4	1587.8
12.5°	1579.8	1573.4	1576.6	1574.2	1572.6
15°	1563.0	1555.8	1558.2	1555.8	1555.0
17.5°	1542.2	1535.0	1535.8	1532.6	1529.5
20°	1516.7	1510.3	1511.1	1503.1	1499.9
22.5°	1487.1	1480.7	1479.9	1469.5	1465.5
25°	1456.7	1447.1	1443.9	1431.2	1428.0
27.5°	1418.4	1409.6	1404.8	1391.2	1384.8
30°	1377.6	1368.0	1360.0	1344.9	1338.5
32.5°	1331.3	1321.7	1311.3	1295.3	1288.1
35°	1277.7	1268.9	1258.6	1241.8	1233.0
37.5°	1224.2	1214.6	1204.2	1184.2	1177.1
40°	1165.1	1156.3	1145.1	1123.5	1115.5
42.5°	1105.9	1095.5	1082.0	1061.2	1052.4
45°	1043.6	1034.0	1018.0	996.5	986.1
47.5°	978.1	970.1	953.3	930.1	918.9
50°	909.4	903.0	885.4	859.8	849.4
52.5°	843.8	835.0	815.1	789.5	778.3
55°	771.9	766.3	741.6	717.6	706.4
57.5°	700.0	692.8	668.0	644.1	633.7
60°	626.5	620.1	593.7	569.7	557.0
62.5°	552.2	545.0	517.0	495.4	483.4
65°	475.5	469.9	441.9	422.7	413.1
67.5°	398.7	394.7	365.2	349.2	342.0
70°	323.6	318.0	294.9	288.5	318.8
72.5°	254.1	246.9	226.9	216.6	208.6
75°	188.6	184.6	181.4	175.0	163.0
77.5°	132.6	131.8	120.7	111.9	120.7
80°	91.1	94.3	81.5	74.3	77.5
82.5°	55.9	62.3	48.7	43.2	41.6
85°	28.0	28.8	24.0	22.4	21.6
87.5°	10.4	12.0	10.4	8.8	8.8
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)