

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: P505982

Luminaire Tested: **14PD-50-PR1-L840**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P505982  
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-L840  
Description: 5000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

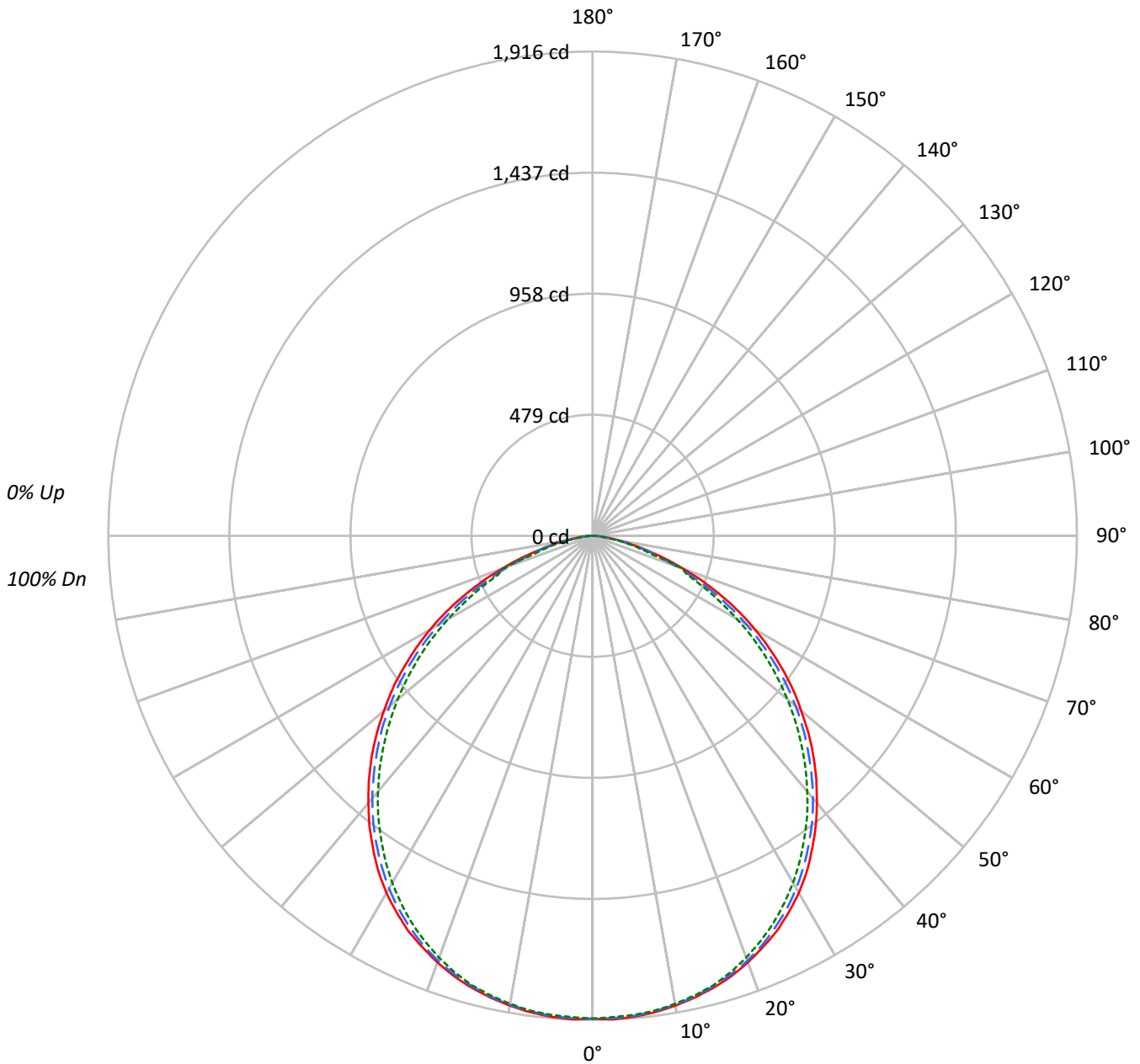
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4918.0 lumens  
Efficiency: N/A  
Efficacy: 101.2 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°	5142	5142	5142
5°	5160	5152	5139
10°	5160	5149	5139
15°	5158	5142	5131
20°	5145	5125	5088
25°	5123	5078	5022
30°	5070	5006	4926
35°	4972	4897	4798
40°	4848	4764	4641
45°	4704	4589	4445
50°	4509	4390	4212
55°	4290	4121	3925
60°	3994	3785	3550
65°	3586	3333	3116
70°	3016	2748	2972
75°	2323	2234	2008
80°	1672	1495	1423
85°	1022	877	790



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.2	3.7
10°-20°	520.4	10.6
20°-30°	786.1	16.0
30°-40°	930.0	18.9
40°-50°	927.3	18.9
50°-60°	783.4	15.9
60°-70°	521.9	10.6
70°-80°	226.7	4.6
80°-90°	41.1	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°	1487.6	30.2
0°-40°	2417.6	49.2
0°-60°	4128.2	83.9
0°-90°	4918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4918.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1911	1911	1911	1911	1911	
5°	1910	1902	1907	1905	1902	182
15°	1851	1843	1846	1843	1842	523
25°	1726	1714	1710	1695	1691	794
35°	1514	1503	1491	1471	1460	946
45°	1236	1225	1206	1180	1168	952
55°	914	908	878	850	837	816
65°	563	556	523	501	489	557
75°	223	219	215	207	193	244
85°	33	34	28	26	26	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1911.0	1911.0	1911.0	1911.0	1911.0
2.5°	1915.7	1907.2	1911.0	1911.0	1906.3
5°	1910.1	1902.5	1907.2	1905.3	1902.5
7.5°	1901.5	1894.0	1896.8	1895.9	1894.9
10°	1888.3	1880.7	1884.5	1882.6	1880.7
12.5°	1871.2	1863.7	1867.5	1864.6	1862.7
15°	1851.4	1842.9	1845.7	1842.9	1841.9
17.5°	1826.8	1818.2	1819.2	1815.4	1811.6
20°	1796.5	1788.9	1789.8	1780.4	1776.6
22.5°	1761.5	1753.9	1752.9	1740.6	1735.9
25°	1725.5	1714.1	1710.3	1695.2	1691.4
27.5°	1680.1	1669.6	1664.0	1647.9	1640.3
30°	1631.8	1620.4	1611.0	1593.0	1585.4
32.5°	1576.9	1565.5	1553.2	1534.3	1525.8
35°	1513.5	1503.1	1490.8	1470.9	1460.5
37.5°	1450.1	1438.7	1426.4	1402.7	1394.2
40°	1380.0	1369.6	1356.3	1330.8	1321.3
42.5°	1310.0	1297.7	1281.6	1257.0	1246.6
45°	1236.1	1224.8	1205.9	1180.3	1168.0
47.5°	1158.5	1149.1	1129.2	1101.7	1088.5
50°	1077.1	1069.6	1048.7	1018.4	1006.1
52.5°	999.5	989.1	965.4	935.2	921.9
55°	914.3	907.7	878.4	850.0	836.7
57.5°	829.1	820.6	791.3	762.9	750.6
60°	742.1	734.5	703.3	674.9	659.7
62.5°	654.0	645.5	612.4	586.8	572.6
65°	563.2	556.5	523.4	500.7	489.3
67.5°	472.3	467.6	432.6	413.6	405.1
70°	383.3	376.7	349.3	341.7	377.7
72.5°	301.0	292.5	268.8	256.5	247.0
75°	223.4	218.6	214.9	207.3	193.1
77.5°	157.1	156.2	142.9	132.5	142.9
80°	107.9	111.7	96.5	88.0	91.8
82.5°	66.3	73.8	57.7	51.1	49.2
85°	33.1	34.1	28.4	26.5	25.6
87.5°	12.3	14.2	12.3	10.4	10.4
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)