

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: P505974

Luminaire Tested: **14PD-50-PL1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505974
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-L850
Description: 5000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI, 5000K LEDS
Light Source: -
Ballast/Driver: -

Summary

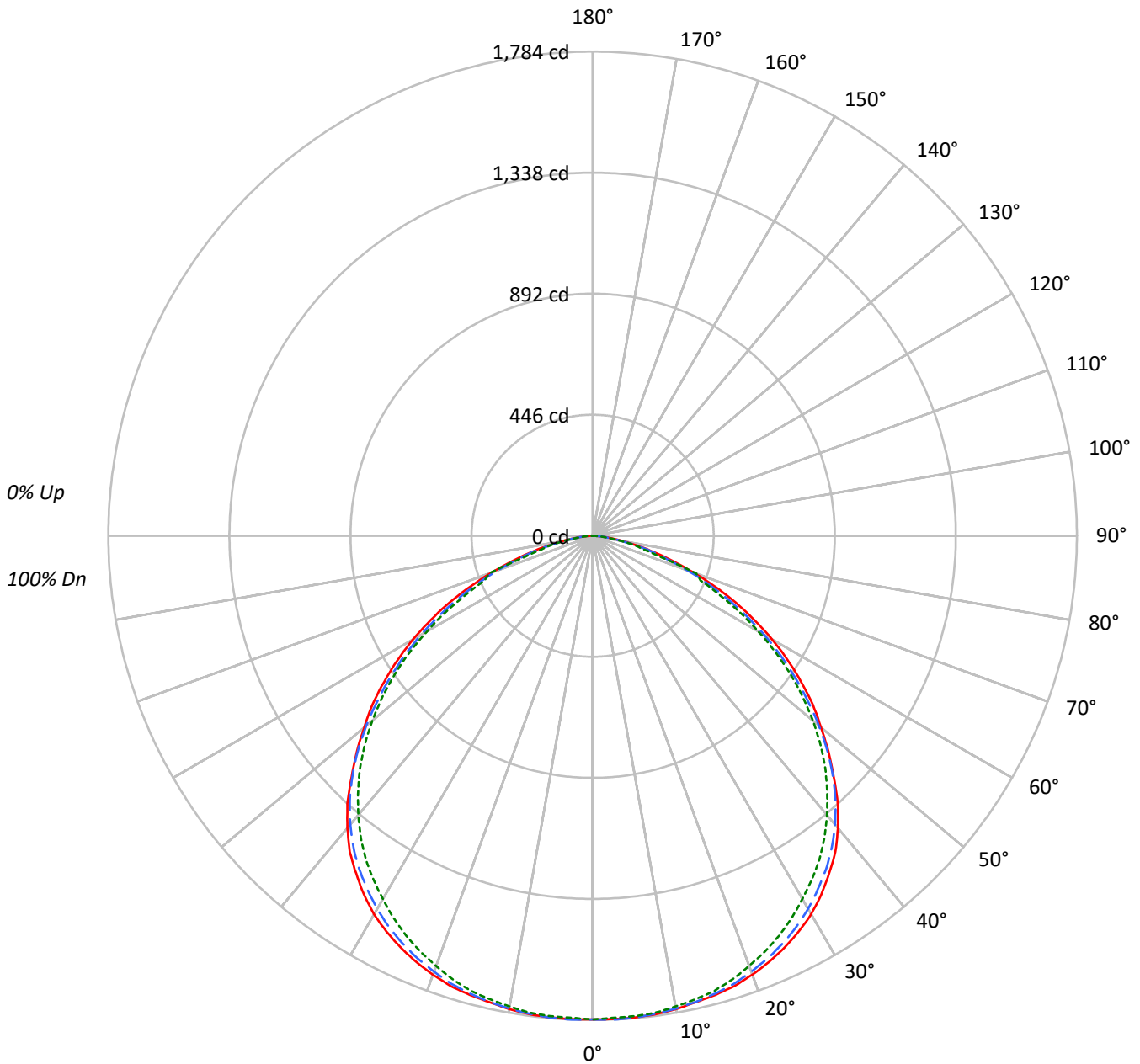
Lumens per Lamp: N/A
Luminaire Lumens: 4953.7 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	4796	4796	4796
5°	4812	4814	4799
10°	4838	4833	4811
15°	4878	4864	4835
20°	4928	4894	4829
25°	4969	4920	4827
30°	5003	4933	4802
35°	4990	4926	4784
40°	4937	4879	4717
45°	4779	4764	4611
50°	4598	4556	4433
55°	4399	4271	4174
60°	4109	3925	3793
65°	3702	3472	3284
70°	3096	2903	3188
75°	2442	2351	2036
80°	1759	1562	1593
85°	1118	936	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	3.4
10°-20°	492.6	9.9
20°-30°	761.6	15.4
30°-40°	932.1	18.8
40°-50°	955.6	19.3
50°-60°	813.9	16.4
60°-70°	543.9	11.0
70°-80°	241.0	4.9
80°-90°	43.6	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°	1423.6	28.7
0°-40°	2355.8	47.6
0°-60°	4125.2	83.3
0°-90°	4953.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4953.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1782	1782	1782	1782	1782	
5°	1781	1778	1782	1781	1776	170
15°	1751	1745	1746	1741	1735	495
25°	1674	1668	1657	1636	1626	772
35°	1519	1515	1500	1466	1456	950
45°	1256	1260	1252	1224	1212	969
55°	938	933	910	892	890	837
65°	581	576	545	521	516	573
75°	235	238	226	227	196	254
85°	36	35	30	29	28	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1782.3	1782.3	1782.3	1782.3	1782.3
2.5°	1782.3	1779.4	1784.3	1786.3	1777.5
5°	1781.4	1777.5	1782.3	1781.4	1776.5
7.5°	1778.4	1771.6	1776.5	1774.5	1772.6
10°	1770.6	1764.7	1768.6	1765.7	1760.8
12.5°	1759.8	1755.9	1758.9	1755.9	1749.1
15°	1751.0	1745.2	1746.1	1741.2	1735.4
17.5°	1739.3	1730.5	1730.5	1720.7	1713.8
20°	1720.7	1712.9	1708.9	1695.2	1686.4
22.5°	1699.2	1693.3	1685.4	1667.8	1658.0
25°	1673.7	1667.8	1657.1	1635.5	1625.7
27.5°	1644.3	1636.5	1624.8	1599.3	1587.6
30°	1610.1	1600.3	1587.6	1559.2	1545.5
32.5°	1568.0	1561.1	1544.5	1515.1	1502.4
35°	1519.1	1515.1	1499.5	1466.2	1456.4
37.5°	1469.1	1461.3	1447.6	1412.4	1402.6
40°	1405.5	1400.6	1388.9	1354.6	1342.9
42.5°	1337.0	1334.1	1324.3	1292.0	1279.3
45°	1255.8	1259.7	1251.9	1223.5	1211.7
47.5°	1178.4	1176.5	1173.6	1148.1	1138.3
50°	1098.2	1094.3	1088.4	1067.8	1059.0
52.5°	1022.8	1015.0	999.3	981.7	975.8
55°	937.7	932.8	910.3	891.7	889.7
57.5°	851.5	848.6	821.2	799.7	799.7
60°	763.4	759.5	729.2	706.7	704.7
62.5°	671.4	668.5	637.2	611.7	612.7
65°	581.4	576.5	545.2	520.7	515.8
67.5°	487.4	485.5	455.1	432.6	430.7
70°	393.5	393.5	369.0	349.4	405.2
72.5°	310.3	307.3	287.8	279.0	266.2
75°	234.9	237.8	226.1	227.1	195.8
77.5°	167.4	162.5	157.6	146.8	155.6
80°	113.5	110.6	100.8	97.9	102.8
82.5°	70.5	71.5	62.6	56.8	55.8
85°	36.2	35.2	30.3	29.4	28.4
87.5°	13.7	14.7	12.7	11.7	10.8
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)