

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: P505989

Luminaire Tested: **14PD-50-PW1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-50-PW1-L830
Description: 5000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

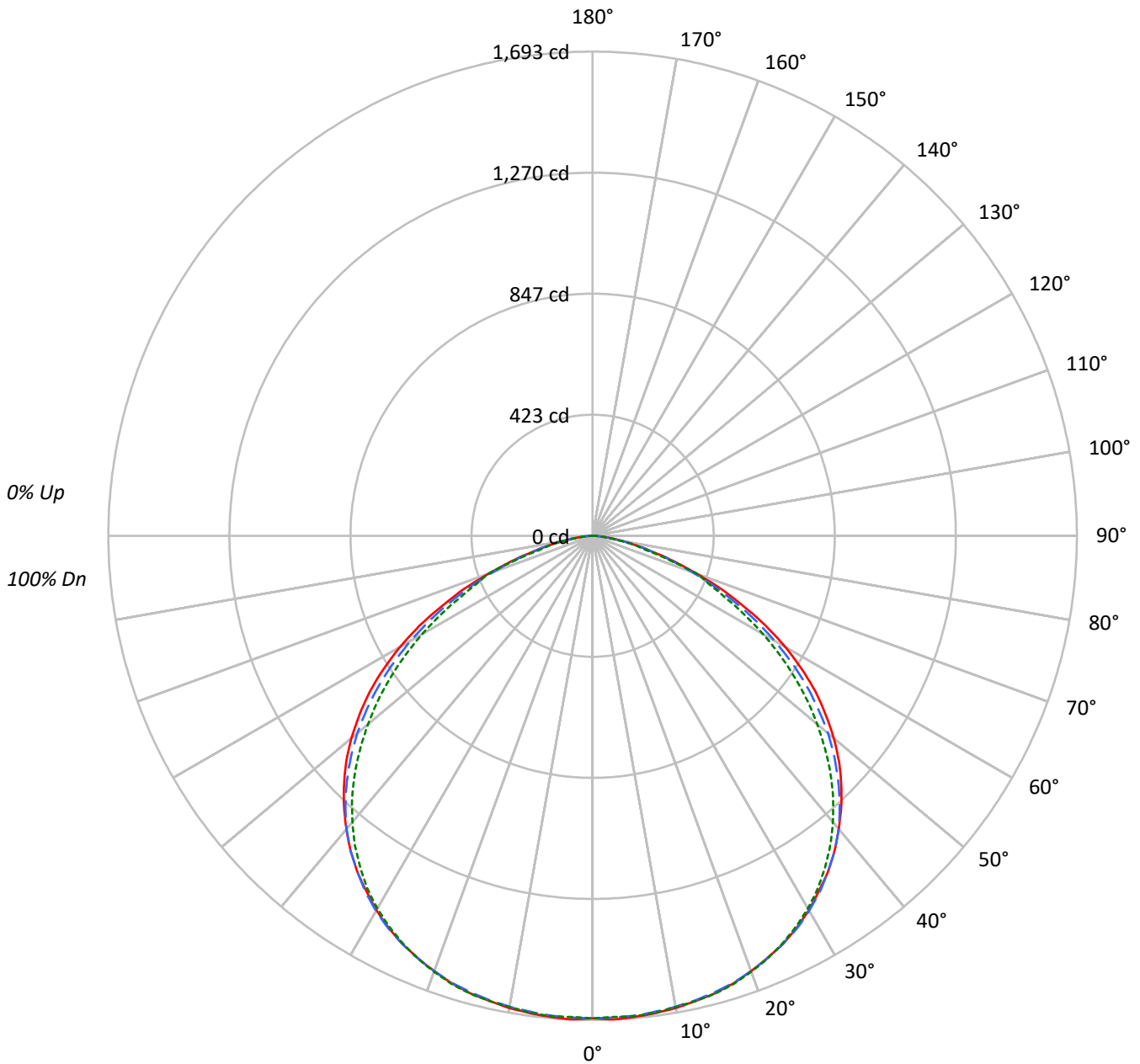
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4804.8 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.42
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

TEST NUMBER: P505989
CATALOG NUMBER: 14PD-50-PW1-L830

Luminous Intensity Polar Plot





TEST NUMBER: P505989

CATALOG NUMBER: 14PD-50-PW1-L830

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	97	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	77	83	79	76	80	77	74	72																			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61																			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52																			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39																			
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35																			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4540	4540	4540
5°	4562	4549	4555
10°	4581	4568	4571
15°	4612	4602	4618
20°	4640	4637	4645
25°	4675	4675	4667
30°	4697	4706	4676
35°	4712	4712	4652
40°	4704	4700	4590
45°	4678	4624	4475
50°	4608	4496	4292
55°	4465	4277	4045
60°	4183	3952	3706
65°	3705	3492	3261
70°	3024	2889	3046
75°	2280	2241	2013
80°	1641	1537	1537
85°	1031	973	855



TEST NUMBER: P505989

CATALOG NUMBER: 14PD-50-PW1-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	3.3
10°-20°	467.0	9.7
20°-30°	725.0	15.1
30°-40°	892.9	18.6
40°-50°	929.6	19.3
50°-60°	808.4	16.8
60°-70°	543.1	11.3
70°-80°	235.1	4.9
80°-90°	43.2	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°	1352.4	28.1
0°-40°	2245.3	46.7
0°-60°	3983.4	82.9
0°-90°	4804.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4804.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1689	1678	1684	1688	1686	161
15°	1656	1644	1652	1658	1658	468
25°	1574	1567	1574	1574	1572	726
35°	1434	1430	1434	1422	1416	897
45°	1229	1226	1215	1187	1176	947
55°	952	935	912	876	862	846
65°	582	571	548	523	512	576
75°	219	221	216	220	194	242
85°	33	34	32	28	28	44
90°	0	0	0	0	0	



TEST NUMBER: P505989

CATALOG NUMBER: 14PD-50-PW1-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1687.1	1687.1	1687.1	1687.1	1687.1
2.5°	1692.8	1682.3	1686.1	1691.8	1684.2
5°	1689.0	1678.5	1684.2	1688.0	1686.1
7.5°	1683.3	1675.6	1678.5	1682.3	1681.4
10°	1676.6	1669.0	1671.8	1675.6	1672.8
12.5°	1666.1	1657.5	1663.2	1667.1	1666.1
15°	1655.6	1644.2	1651.8	1657.5	1657.5
17.5°	1640.4	1630.8	1638.4	1643.2	1642.3
20°	1620.3	1613.6	1619.4	1623.2	1622.2
22.5°	1597.4	1592.7	1599.3	1599.3	1599.3
25°	1574.5	1566.9	1574.5	1574.5	1571.7
27.5°	1545.0	1538.3	1547.8	1545.0	1540.2
30°	1511.6	1507.8	1514.5	1509.7	1504.9
32.5°	1472.5	1470.6	1477.3	1467.7	1463.9
35°	1434.4	1430.5	1434.4	1422.0	1416.2
37.5°	1389.5	1385.7	1389.5	1373.3	1364.7
40°	1339.0	1336.1	1338.0	1317.0	1306.6
42.5°	1286.5	1283.7	1278.9	1253.2	1244.6
45°	1229.3	1225.5	1215.0	1187.3	1175.9
47.5°	1168.3	1161.6	1146.3	1116.8	1101.5
50°	1100.6	1091.0	1073.9	1041.4	1025.2
52.5°	1027.1	1015.7	993.7	961.3	946.1
55°	951.8	934.6	911.7	875.5	862.1
57.5°	866.0	847.8	824.0	790.6	775.4
60°	777.3	759.1	734.3	703.8	688.6
62.5°	682.8	666.6	641.8	613.2	599.9
65°	581.8	571.3	548.4	522.6	512.1
67.5°	486.4	475.9	456.8	434.9	438.7
70°	384.3	383.4	367.2	351.9	387.2
72.5°	299.5	297.6	289.0	281.3	279.4
75°	219.3	221.3	215.5	220.3	193.6
77.5°	154.5	156.4	155.5	142.1	148.8
80°	105.9	105.9	99.2	94.4	99.2
82.5°	63.9	76.3	68.7	56.3	54.4
85°	33.4	34.3	31.5	27.7	27.7
87.5°	12.4	14.3	12.4	11.4	10.5
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)