

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: P505991

Luminaire Tested: **14PD-50-PW1-L840**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505991
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-L840
Description: 5000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

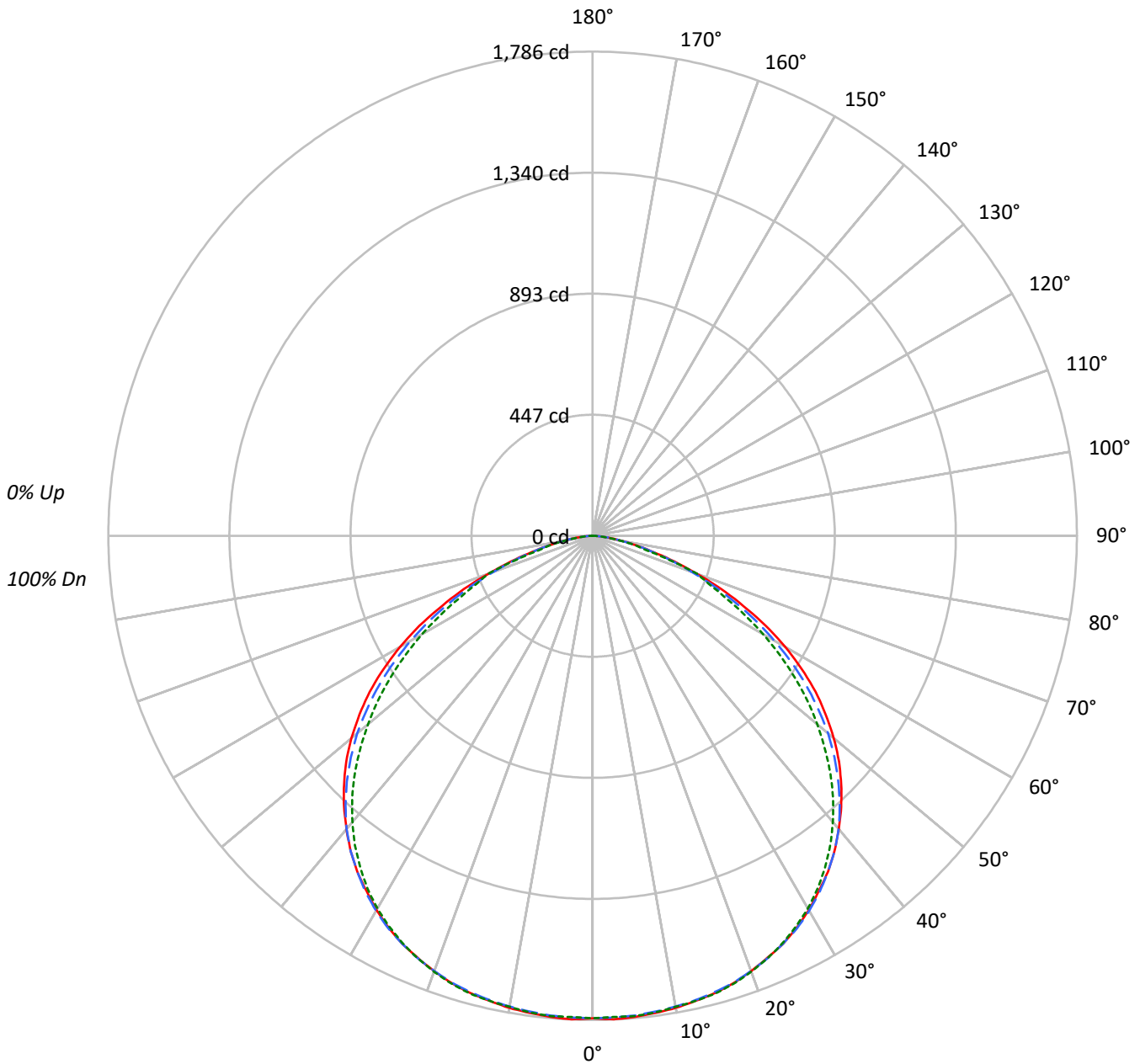
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5068.1 lumens
Efficiency: N/A
Efficacy: 104.3 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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85			85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72			72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61			61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52			52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45			45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39			39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35			35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31			31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28			28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25			25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4789	4789	4789
5°	4812	4799	4804
10°	4832	4818	4821
15°	4865	4854	4871
20°	4894	4891	4900
25°	4931	4931	4922
30°	4954	4964	4932
35°	4970	4970	4907
40°	4962	4958	4841
45°	4935	4877	4720
50°	4860	4742	4527
55°	4710	4512	4267
60°	4413	4169	3909
65°	3907	3683	3440
70°	3190	3047	3213
75°	2406	2363	2123
80°	1731	1621	1621
85°	1087	1025	902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	3.3
10°-20°	492.6	9.7
20°-30°	764.7	15.1
30°-40°	941.9	18.6
40°-50°	980.6	19.3
50°-60°	852.7	16.8
60°-70°	572.9	11.3
70°-80°	248.0	4.9
80°-90°	45.5	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°	1426.5	28.1
0°-40°	2368.4	46.7
0°-60°	4201.7	82.9
0°-90°	5068.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5068.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1780	1780	1780	1780	1780	
5°	1782	1770	1776	1780	1778	170
15°	1746	1734	1742	1748	1748	493
25°	1661	1653	1661	1661	1658	765
35°	1513	1509	1513	1500	1494	946
45°	1297	1293	1282	1252	1240	999
55°	1004	986	962	924	909	892
65°	614	603	578	551	540	608
75°	231	233	227	232	204	255
85°	35	36	33	29	29	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1779.5	1779.5	1779.5	1779.5	1779.5
2.5°	1785.6	1774.5	1778.5	1784.6	1776.5
5°	1781.5	1770.5	1776.5	1780.5	1778.5
7.5°	1775.5	1767.5	1770.5	1774.5	1773.5
10°	1768.5	1760.4	1763.4	1767.5	1764.4
12.5°	1757.4	1748.3	1754.4	1758.4	1757.4
15°	1746.3	1734.3	1742.3	1748.3	1748.3
17.5°	1730.2	1720.2	1728.2	1733.3	1732.3
20°	1709.1	1702.1	1708.1	1712.1	1711.1
22.5°	1685.0	1679.9	1687.0	1687.0	1687.0
25°	1660.8	1652.8	1660.8	1660.8	1657.8
27.5°	1629.6	1622.6	1632.7	1629.6	1624.6
30°	1594.4	1590.4	1597.5	1592.4	1587.4
32.5°	1553.2	1551.2	1558.2	1548.2	1544.1
35°	1513.0	1508.9	1513.0	1499.9	1493.8
37.5°	1465.7	1461.7	1465.7	1448.6	1439.5
40°	1412.4	1409.3	1411.4	1389.2	1378.2
42.5°	1357.0	1354.0	1349.0	1321.8	1312.8
45°	1296.7	1292.7	1281.6	1252.4	1240.3
47.5°	1232.3	1225.3	1209.2	1178.0	1161.9
50°	1160.9	1150.8	1132.7	1098.5	1081.4
52.5°	1083.4	1071.3	1048.2	1014.0	997.9
55°	1003.9	985.8	961.7	923.5	909.4
57.5°	913.4	894.3	869.1	833.9	817.8
60°	819.9	800.7	774.6	742.4	726.3
62.5°	720.3	703.2	677.0	646.8	632.7
65°	613.6	602.6	578.4	551.3	540.2
67.5°	513.0	502.0	481.9	458.7	462.7
70°	405.4	404.4	387.3	371.2	408.4
72.5°	315.9	313.9	304.8	296.8	294.7
75°	231.4	233.4	227.3	232.4	204.2
77.5°	163.0	165.0	164.0	149.9	156.9
80°	111.7	111.7	104.6	99.6	104.6
82.5°	67.4	80.5	72.4	59.4	57.3
85°	35.2	36.2	33.2	29.2	29.2
87.5°	13.1	15.1	13.1	12.1	11.1
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)