

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: P506316

Luminaire Tested: **22PD-45-PW1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-45-PW1-L850
Description: 4500 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

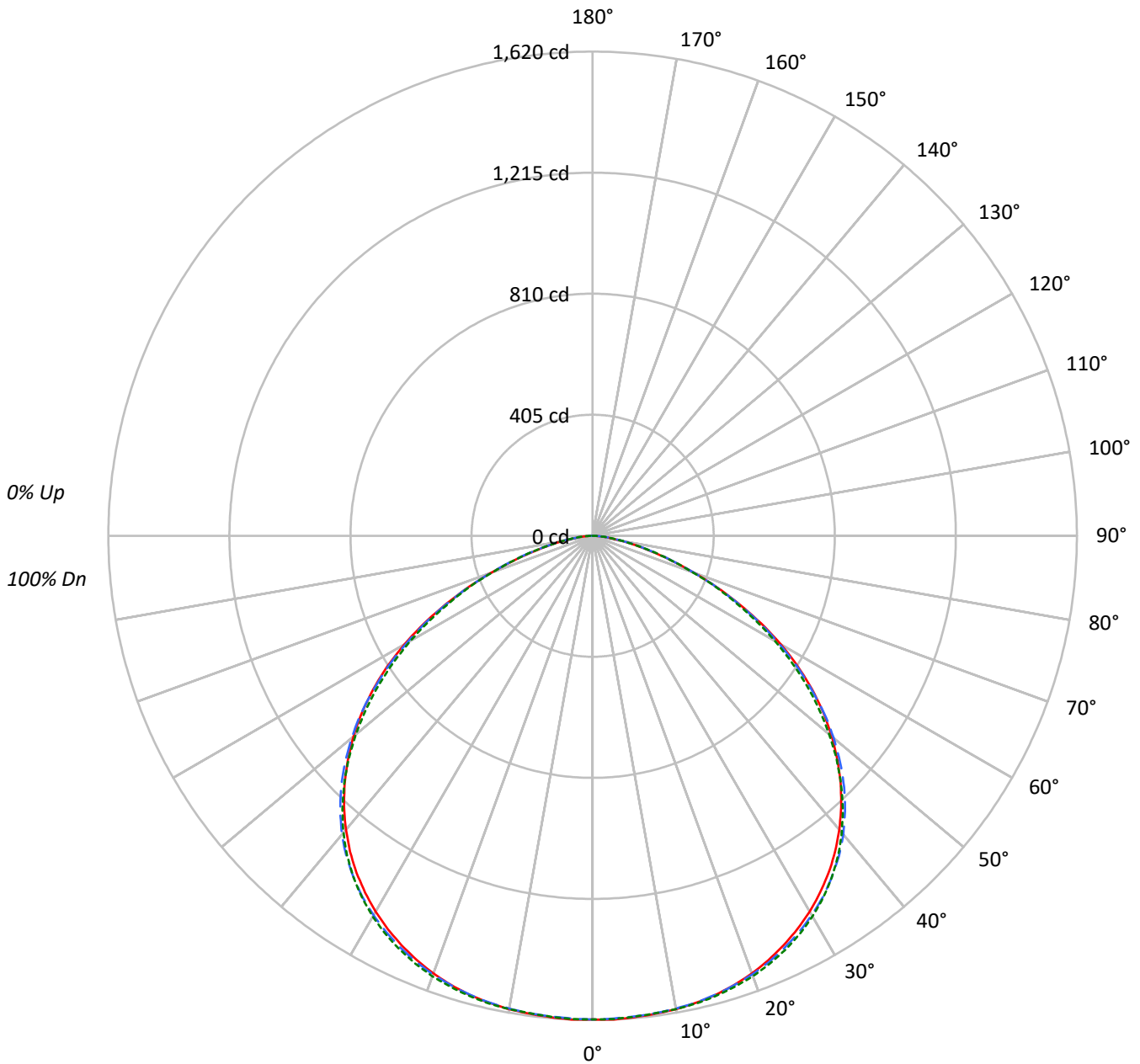
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4678.1 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.34 / 1.44
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
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				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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72				72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61				61
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52				52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45				45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39				39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35				35
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28				28
10	53	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°	4355	4355	4355
5°	4367	4361	4362
10°	4395	4389	4394
15°	4430	4428	4441
20°	4462	4472	4491
25°	4489	4515	4536
30°	4511	4554	4570
35°	4522	4581	4583
40°	4509	4582	4555
45°	4464	4528	4473
50°	4373	4405	4325
55°	4203	4184	4106
60°	3913	3870	3788
65°	3451	3418	3351
70°	2826	2840	2781
75°	2141	2214	2195
80°	1551	1613	1587
85°	1019	1053	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	3.3
10°-20°	449.5	9.6
20°-30°	700.7	15.0
30°-40°	868.5	18.6
40°-50°	908.8	19.4
50°-60°	791.9	16.9
60°-70°	530.5	11.3
70°-80°	230.0	4.9
80°-90°	44.3	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°	1304.1	27.9
0°-40°	2172.6	46.4
0°-60°	3873.4	82.8
0°-90°	4678.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4678.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1618	1618	1618	1618	1618	
5°	1617	1615	1614	1614	1615	154
15°	1590	1588	1590	1591	1594	449
25°	1512	1512	1521	1525	1528	697
35°	1377	1382	1394	1396	1395	861
45°	1173	1179	1190	1180	1175	903
55°	896	895	892	882	875	798
65°	542	539	537	532	526	536
75°	206	209	213	211	211	227
85°	33	35	34	35	36	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1618.4	1618.4	1618.4	1618.4	1618.4
2.5°	1620.1	1617.2	1616.6	1616.6	1618.4
5°	1616.6	1614.9	1614.3	1613.7	1614.9
7.5°	1613.2	1610.9	1611.4	1610.3	1611.4
10°	1608.5	1606.2	1606.2	1606.2	1608.0
12.5°	1600.4	1598.7	1599.3	1600.4	1602.8
15°	1590.0	1587.7	1589.5	1591.2	1594.1
17.5°	1575.6	1573.8	1576.7	1579.6	1581.9
20°	1558.2	1556.5	1561.7	1565.7	1568.1
22.5°	1536.8	1536.2	1543.2	1547.8	1549.5
25°	1511.9	1512.5	1520.6	1525.3	1527.6
27.5°	1483.6	1484.8	1495.2	1499.2	1501.5
30°	1451.8	1454.7	1465.7	1469.1	1470.9
32.5°	1415.9	1420.0	1433.3	1435.6	1435.6
35°	1376.6	1381.8	1394.5	1396.3	1395.1
37.5°	1332.6	1338.4	1352.9	1350.6	1348.8
40°	1283.5	1289.8	1304.3	1299.7	1296.8
42.5°	1230.8	1237.2	1249.9	1243.0	1238.9
45°	1173.0	1179.4	1189.8	1179.9	1175.3
47.5°	1110.5	1118.1	1123.3	1112.3	1106.5
50°	1044.6	1046.9	1052.1	1039.4	1033.0
52.5°	972.9	972.9	976.9	963.0	955.5
55°	895.9	895.4	891.9	882.1	875.1
57.5°	814.4	810.9	808.6	798.2	790.1
60°	727.1	721.8	719.0	710.3	703.9
62.5°	635.7	632.8	629.3	622.4	615.4
65°	542.0	539.1	536.8	531.6	526.3
67.5°	448.8	447.1	447.1	443.6	443.1
70°	359.2	360.3	360.9	360.9	353.4
72.5°	278.2	278.8	281.7	279.4	278.8
75°	205.9	209.4	212.9	211.1	211.1
77.5°	148.1	153.3	153.3	152.1	150.4
80°	100.1	102.4	104.1	103.5	102.4
82.5°	63.6	65.4	63.6	64.8	65.4
85°	33.0	35.3	34.1	34.7	36.4
87.5°	11.0	12.1	12.7	12.1	12.1
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)