

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: P505965

Luminaire Tested: **14PD-45-PW1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505965
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-45-PW1-L850
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

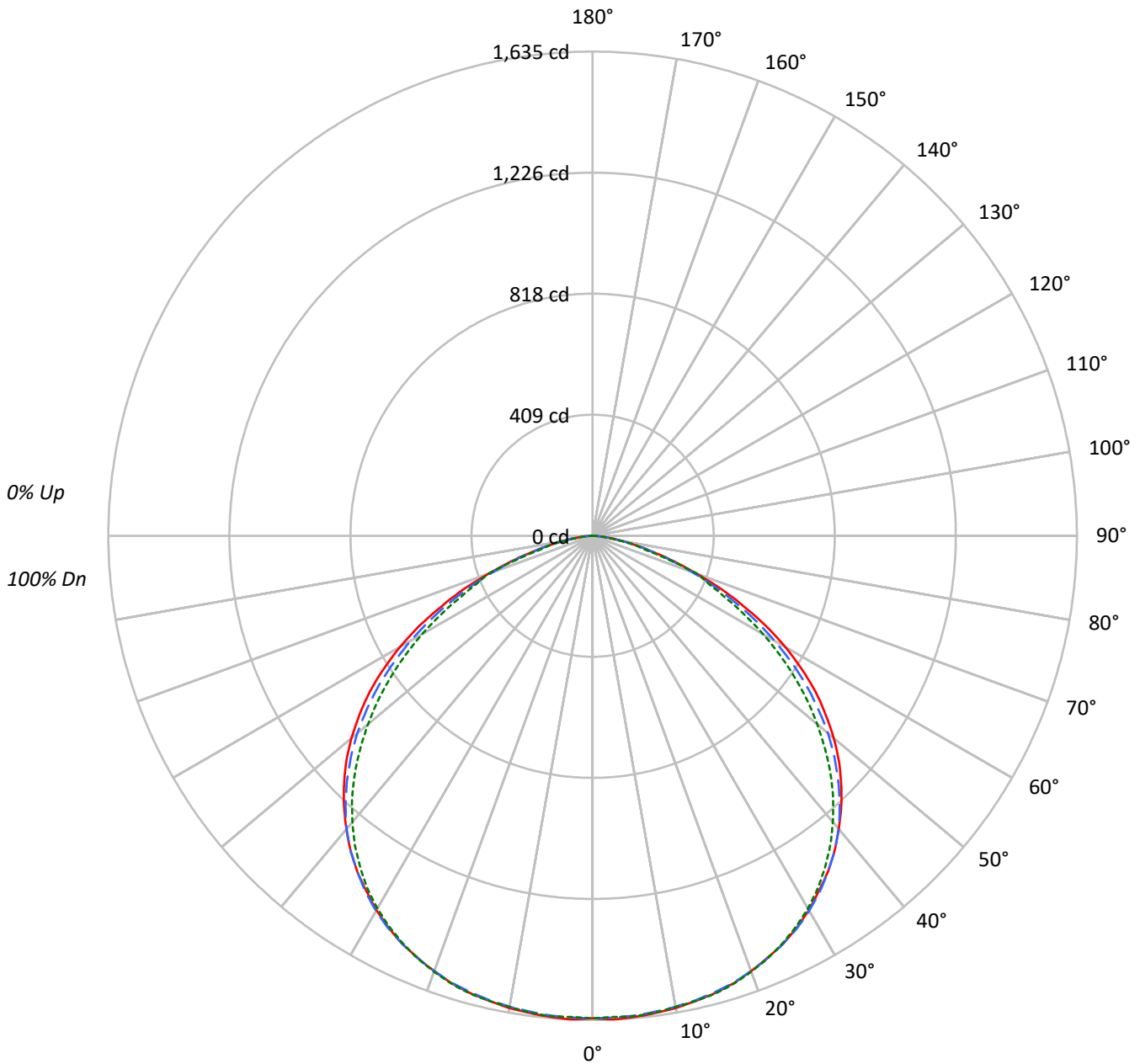
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4640.0 lumens
Efficiency: N/A
Efficacy: 108.2 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): 42.9
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: P505965
CATALOG NUMBER: 14PD-45-PW1-L850

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	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°	4384	4384	4384
5°	4406	4393	4398
10°	4424	4412	4414
15°	4454	4444	4459
20°	4481	4478	4486
25°	4515	4515	4507
30°	4536	4544	4516
35°	4550	4550	4493
40°	4542	4539	4432
45°	4518	4465	4322
50°	4449	4341	4145
55°	4312	4131	3906
60°	4040	3817	3578
65°	3577	3372	3149
70°	2921	2790	2942
75°	2202	2164	1944
80°	1584	1485	1485
85°	994	939	824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	3.3
10°-20°	451.0	9.7
20°-30°	700.1	15.1
30°-40°	862.3	18.6
40°-50°	897.7	19.3
50°-60°	780.7	16.8
60°-70°	524.5	11.3
70°-80°	227.0	4.9
80°-90°	41.7	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°	1306.0	28.1
0°-40°	2168.3	46.7
0°-60°	3846.8	82.9
0°-90°	4640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1629	1629	1629	1629	1629	
5°	1631	1621	1626	1630	1628	155
15°	1599	1588	1595	1601	1601	452
25°	1520	1513	1520	1520	1518	701
35°	1385	1382	1385	1373	1368	866
45°	1187	1184	1173	1147	1136	914
55°	919	903	880	846	833	817
65°	562	552	530	505	495	556
75°	212	214	208	213	187	234
85°	32	33	30	27	27	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1629.2	1629.2	1629.2	1629.2	1629.2
2.5°	1634.7	1624.6	1628.3	1633.8	1626.4
5°	1631.1	1620.9	1626.4	1630.1	1628.3
7.5°	1625.5	1618.2	1620.9	1624.6	1623.7
10°	1619.1	1611.7	1614.5	1618.2	1615.4
12.5°	1608.9	1600.7	1606.2	1609.9	1608.9
15°	1598.8	1587.8	1595.1	1600.7	1600.7
17.5°	1584.1	1574.9	1582.2	1586.8	1585.9
20°	1564.7	1558.3	1563.8	1567.5	1566.6
22.5°	1542.6	1538.0	1544.5	1544.5	1544.5
25°	1520.5	1513.2	1520.5	1520.5	1517.8
27.5°	1492.0	1485.5	1494.7	1492.0	1487.4
30°	1459.8	1456.1	1462.5	1457.9	1453.3
32.5°	1422.0	1420.1	1426.6	1417.4	1413.7
35°	1385.2	1381.5	1385.2	1373.2	1367.7
37.5°	1341.9	1338.2	1341.9	1326.2	1317.9
40°	1293.1	1290.3	1292.1	1271.9	1261.7
42.5°	1242.4	1239.6	1235.0	1210.2	1201.9
45°	1187.1	1183.5	1173.3	1146.6	1135.6
47.5°	1128.2	1121.8	1107.0	1078.5	1063.7
50°	1062.8	1053.6	1037.0	1005.7	990.1
52.5°	991.9	980.8	959.7	928.3	913.6
55°	919.1	902.6	880.5	845.5	832.6
57.5°	836.2	818.7	795.7	763.5	748.8
60°	750.6	733.1	709.2	679.7	664.9
62.5°	659.4	643.8	619.8	592.2	579.3
65°	561.8	551.7	529.6	504.7	494.6
67.5°	469.7	459.6	441.1	420.0	423.6
70°	371.2	370.2	354.6	339.8	373.9
72.5°	289.2	287.3	279.1	271.7	269.8
75°	211.8	213.7	208.1	212.7	187.0
77.5°	149.2	151.0	150.1	137.2	143.7
80°	102.2	102.2	95.8	91.2	95.8
82.5°	61.7	73.7	66.3	54.3	52.5
85°	32.2	33.2	30.4	26.7	26.7
87.5°	12.0	13.8	12.0	11.1	10.1
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)