

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: P505947

Luminaire Tested: **14PD-45-PL1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505947
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-45-PL1-L850
Description: 4500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

Summary

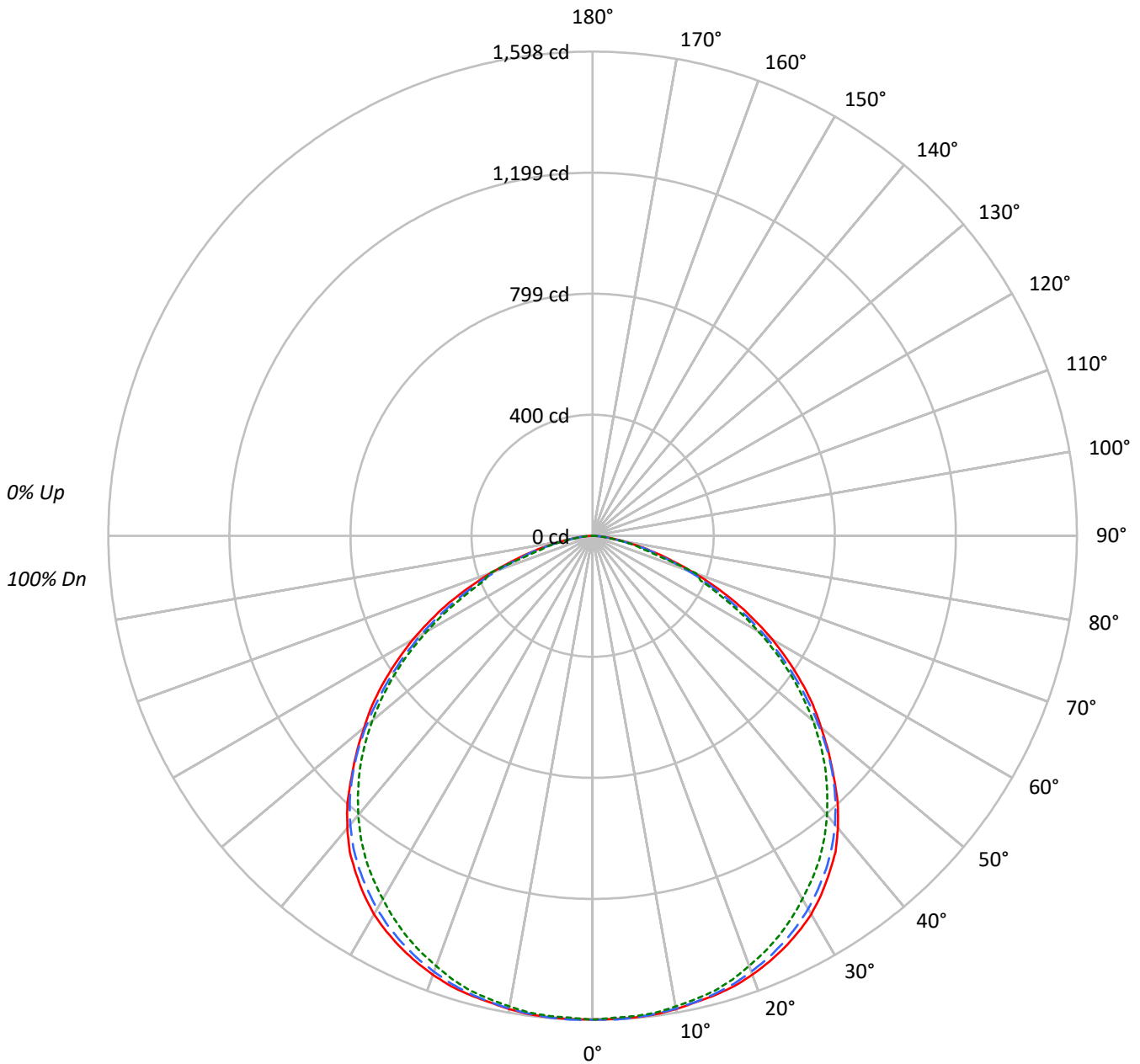
Lumens per Lamp: N/A
Luminaire Lumens: 4437.6 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	4296	4296	4296
5°	4311	4313	4299
10°	4334	4329	4310
15°	4370	4358	4331
20°	4414	4384	4326
25°	4452	4407	4324
30°	4482	4419	4302
35°	4470	4413	4286
40°	4423	4371	4226
45°	4281	4268	4131
50°	4119	4082	3972
55°	3941	3826	3739
60°	3681	3515	3398
65°	3316	3110	2942
70°	2773	2601	2856
75°	2188	2105	1824
80°	1576	1399	1427
85°	1000	840	784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	3.4
10°-20°	441.3	9.9
20°-30°	682.3	15.4
30°-40°	835.0	18.8
40°-50°	856.0	19.3
50°-60°	729.1	16.4
60°-70°	487.2	11.0
70°-80°	215.9	4.9
80°-90°	39.1	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°	1275.3	28.7
0°-40°	2110.3	47.6
0°-60°	3695.4	83.3
0°-90°	4437.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4437.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1596	1592	1597	1596	1591	152
15°	1569	1563	1564	1560	1555	444
25°	1499	1494	1484	1465	1456	691
35°	1361	1357	1343	1313	1305	851
45°	1125	1128	1121	1096	1086	868
55°	840	836	815	799	797	749
65°	521	516	488	466	462	513
75°	210	213	202	203	175	228
85°	32	32	27	26	25	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1596.6	1596.6	1596.6	1596.6	1596.6
2.5°	1596.6	1594.0	1598.4	1600.2	1592.3
5°	1595.8	1592.3	1596.6	1595.8	1591.4
7.5°	1593.1	1587.0	1591.4	1589.6	1587.9
10°	1586.1	1580.9	1584.4	1581.7	1577.4
12.5°	1576.5	1573.0	1575.6	1573.0	1566.8
15°	1568.6	1563.3	1564.2	1559.8	1554.6
17.5°	1558.1	1550.2	1550.2	1541.4	1535.3
20°	1541.4	1534.4	1530.9	1518.6	1510.7
22.5°	1522.1	1516.9	1509.8	1494.1	1485.3
25°	1499.3	1494.1	1484.4	1465.1	1456.4
27.5°	1473.0	1466.0	1455.5	1432.7	1422.2
30°	1442.3	1433.6	1422.2	1396.7	1384.5
32.5°	1404.6	1398.5	1383.6	1357.3	1345.9
35°	1360.8	1357.3	1343.2	1313.4	1304.7
37.5°	1316.1	1309.1	1296.8	1265.2	1256.4
40°	1259.1	1254.7	1244.2	1213.5	1203.0
42.5°	1197.7	1195.1	1186.3	1157.4	1146.0
45°	1124.9	1128.4	1121.4	1096.0	1085.5
47.5°	1055.7	1053.9	1051.3	1028.5	1019.7
50°	983.8	980.3	975.0	956.6	948.7
52.5°	916.3	909.2	895.2	879.4	874.2
55°	840.0	835.6	815.4	798.8	797.0
57.5°	762.8	760.2	735.6	716.3	716.3
60°	683.9	680.4	653.2	633.0	631.3
62.5°	601.5	598.9	570.8	548.0	548.9
65°	520.8	516.4	488.4	466.5	462.1
67.5°	436.6	434.9	407.7	387.5	385.8
70°	352.5	352.5	330.6	313.0	363.0
72.5°	277.9	275.3	257.8	249.9	238.5
75°	210.4	213.1	202.5	203.4	175.4
77.5°	149.9	145.5	141.2	131.5	139.4
80°	101.7	99.1	90.3	87.7	92.1
82.5°	63.1	64.0	56.1	50.9	50.0
85°	32.4	31.6	27.2	26.3	25.4
87.5°	12.3	13.2	11.4	10.5	9.6
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)