

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: P506298

Luminaire Tested: **22PD-45-PL1-L850**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-45-PL1-L850
Description: 4500 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

Summary

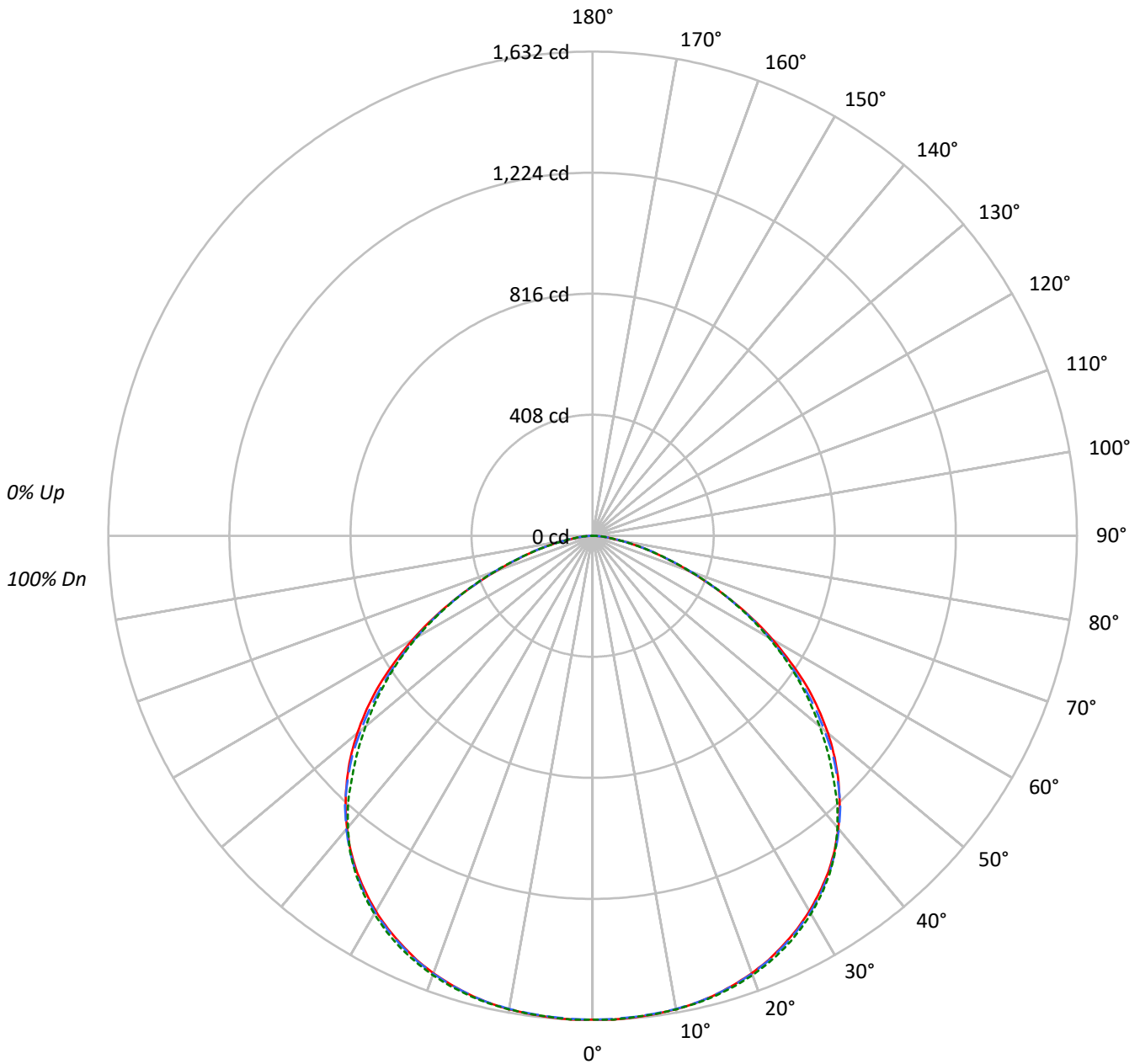
Lumens per Lamp: N/A
Luminaire Lumens: 4620.4 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.33 / 1.42
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4390	4390	4390
5°	4402	4397	4399
10°	4429	4424	4429
15°	4461	4461	4471
20°	4494	4499	4513
25°	4518	4528	4550
30°	4540	4555	4573
35°	4548	4562	4572
40°	4524	4536	4508
45°	4459	4446	4356
50°	4333	4266	4179
55°	4123	4018	3972
60°	3774	3703	3682
65°	3291	3284	3273
70°	2698	2743	2734
75°	2138	2174	2138
80°	1567	1557	1548
85°	1047	1028	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	3.4
10°-20°	452.6	9.8
20°-30°	703.5	15.2
30°-40°	867.3	18.8
40°-50°	895.8	19.4
50°-60°	766.5	16.6
60°-70°	511.6	11.1
70°-80°	224.5	4.9
80°-90°	43.4	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°	1311.2	28.4
0°-40°	2178.5	47.2
0°-60°	3840.9	83.1
0°-90°	4620.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4620.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1630	1627	1628	1627	1628	155
15°	1601	1600	1601	1602	1605	452
25°	1522	1522	1525	1530	1532	702
35°	1384	1384	1389	1392	1392	865
45°	1172	1171	1168	1157	1145	902
55°	879	868	856	852	847	781
65°	517	516	516	518	514	513
75°	206	204	209	208	206	223
85°	34	33	33	34	36	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.2	1631.2	1631.2	1631.2	1631.2
2.5°	1632.4	1630.1	1629.5	1629.5	1632.4
5°	1629.5	1627.2	1627.8	1626.6	1628.4
7.5°	1625.5	1623.2	1623.8	1623.2	1625.5
10°	1620.9	1618.6	1619.2	1618.6	1620.9
12.5°	1612.9	1611.1	1612.3	1612.9	1614.6
15°	1601.4	1599.6	1601.4	1602.5	1604.8
17.5°	1586.4	1585.3	1587.0	1588.7	1591.6
20°	1569.2	1568.1	1570.9	1572.6	1576.1
22.5°	1547.9	1546.8	1549.7	1553.7	1556.0
25°	1521.5	1521.5	1525.0	1529.6	1532.4
27.5°	1493.4	1492.8	1496.8	1501.4	1504.3
30°	1461.2	1460.1	1465.8	1469.8	1471.6
32.5°	1423.9	1424.5	1429.6	1433.6	1434.2
35°	1384.3	1384.3	1388.8	1391.7	1391.7
37.5°	1338.9	1338.3	1342.9	1344.0	1342.3
40°	1287.8	1288.3	1291.2	1290.6	1283.2
42.5°	1232.6	1233.2	1235.5	1227.4	1220.0
45°	1171.7	1171.2	1168.3	1157.4	1144.7
47.5°	1106.8	1104.0	1099.4	1082.7	1073.5
50°	1035.0	1030.4	1018.9	1005.7	998.3
52.5°	959.2	951.2	939.7	929.3	923.0
55°	878.8	867.9	856.4	851.8	846.6
57.5°	789.2	782.3	772.5	770.2	766.8
60°	701.3	693.8	688.1	688.1	684.1
62.5°	609.4	604.8	602.5	603.7	599.7
65°	516.9	515.8	515.8	517.5	514.1
67.5°	427.3	429.6	429.1	434.8	430.2
70°	342.9	346.9	348.6	354.4	347.5
72.5°	270.0	270.5	272.8	274.6	271.1
75°	205.6	203.9	209.1	207.9	205.6
77.5°	148.8	147.6	149.3	150.5	147.6
80°	101.1	99.9	100.5	102.2	99.9
82.5°	63.8	62.6	62.6	64.3	63.8
85°	33.9	33.3	33.3	34.5	35.6
87.5°	12.1	11.5	12.1	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)