

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: P506307

Luminaire Tested: **22PD-45-PR1-L850**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506307  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-45-PR1-L850  
Description: 4500 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

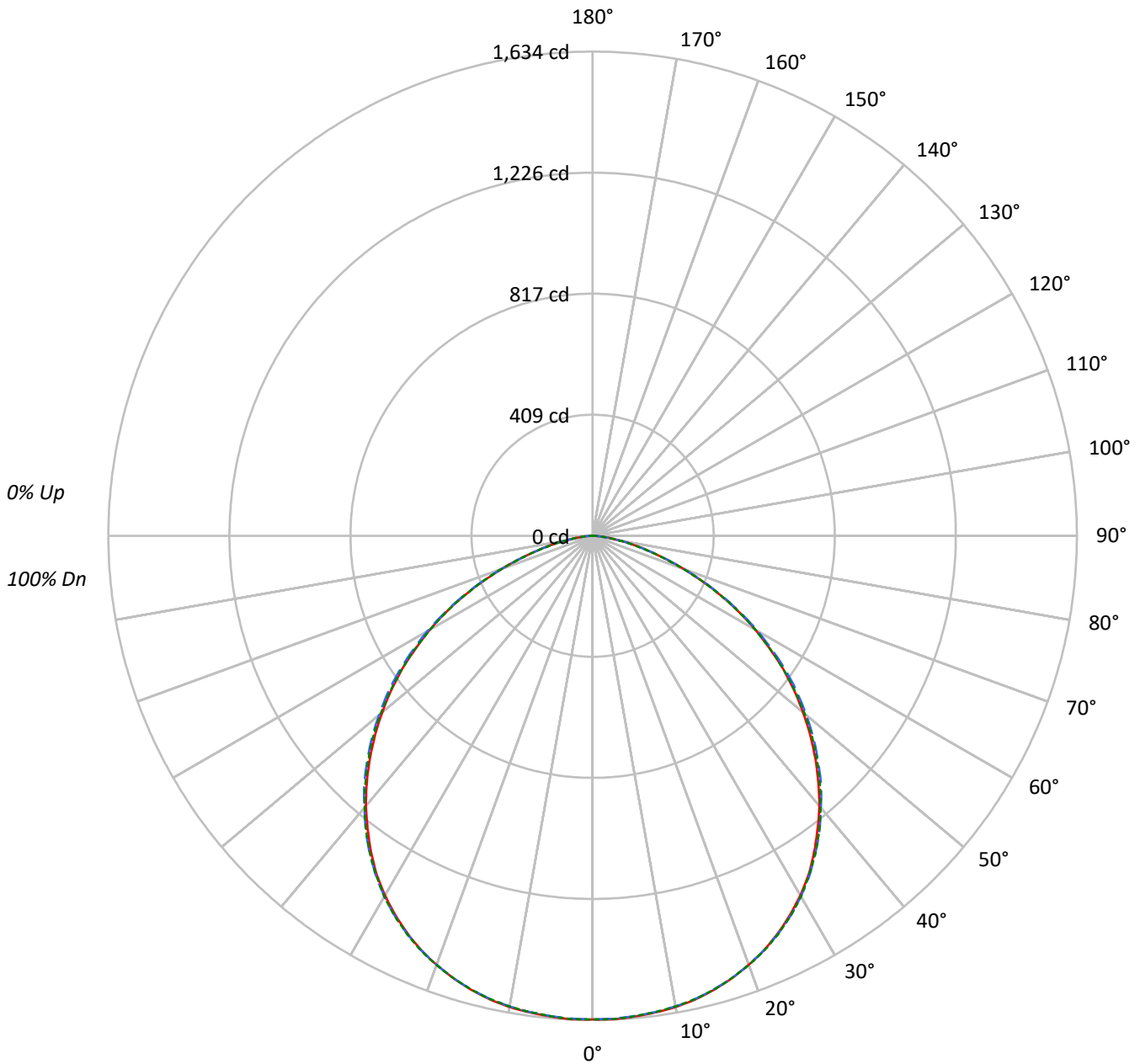
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4362.0 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.37  
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<sub>in</sub>): 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	88	85																			
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72																			
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61																			
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53																			
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46																			
6	71	58	50	43	70	58	49	43	56	48	43	54	48	43	52	47	42	40																			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36																			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32																			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29																			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4393	4393	4393
5°	4399	4396	4396
10°	4413	4407	4407
15°	4418	4414	4416
20°	4412	4411	4414
25°	4393	4398	4401
30°	4354	4367	4369
35°	4280	4304	4302
40°	4181	4209	4203
45°	4043	4095	4074
50°	3879	3939	3907
55°	3682	3741	3687
60°	3414	3461	3402
65°	3046	3077	3042
70°	2562	2562	2544
75°	2008	2008	1985
80°	1471	1454	1446
85°	960	960	976



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.9	3.6
10°-20°	447.3	10.3
20°-30°	682.4	15.6
30°-40°	817.8	18.7
40°-50°	825.9	18.9
50°-60°	706.6	16.2
60°-70°	476.5	10.9
70°-80°	210.2	4.8
80°-90°	40.4	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°	1284.6	29.4
0°-40°	2102.4	48.2
0°-60°	3634.9	83.3
0°-90°	4362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4362.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1629	1626	1628	1626	1628	155
15°	1586	1586	1584	1584	1585	448
25°	1480	1481	1481	1481	1482	682
35°	1303	1311	1310	1309	1310	814
45°	1062	1071	1076	1074	1071	819
55°	785	792	797	796	786	699
65°	478	482	483	482	478	473
75°	193	194	193	194	191	210
85°	31	31	31	32	32	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1632.4	1632.4	1632.4	1632.4	1632.4
2.5°	1633.5	1631.3	1630.8	1630.2	1632.4
5°	1628.6	1626.4	1627.5	1626.4	1627.5
7.5°	1622.6	1620.4	1621.0	1619.9	1621.0
10°	1615.0	1612.8	1612.8	1611.7	1612.8
12.5°	1603.0	1601.3	1600.8	1599.7	1601.3
15°	1586.0	1585.5	1584.4	1583.9	1585.0
17.5°	1565.3	1564.2	1565.3	1563.7	1564.8
20°	1540.8	1541.3	1540.2	1540.8	1541.3
22.5°	1513.0	1513.0	1513.5	1513.5	1514.6
25°	1479.7	1481.3	1481.3	1481.3	1482.4
27.5°	1442.6	1444.8	1446.4	1445.3	1446.4
30°	1401.2	1405.0	1405.5	1405.0	1406.1
32.5°	1356.4	1359.2	1360.8	1359.7	1358.6
35°	1303.0	1310.6	1310.1	1309.0	1309.5
37.5°	1246.8	1254.4	1257.2	1255.0	1255.5
40°	1190.1	1196.6	1198.3	1198.8	1196.6
42.5°	1127.4	1135.0	1141.0	1138.3	1135.0
45°	1062.5	1070.6	1076.1	1074.5	1070.6
47.5°	995.4	1003.0	1010.6	1007.9	1004.1
50°	926.6	934.3	940.8	939.7	933.2
52.5°	856.3	865.0	871.0	868.8	860.1
55°	784.8	791.9	797.4	796.3	785.9
57.5°	707.4	716.7	719.4	717.8	710.1
60°	634.3	640.3	643.0	640.9	632.1
62.5°	556.3	561.2	563.4	562.9	556.9
65°	478.3	482.1	483.2	482.1	477.8
67.5°	398.1	403.6	404.1	404.1	399.8
70°	325.6	327.2	325.6	330.0	323.4
72.5°	255.3	256.3	255.3	255.3	252.5
75°	193.1	193.6	193.1	193.6	190.9
77.5°	139.6	140.7	138.5	140.2	137.4
80°	94.9	94.9	93.8	94.4	93.3
82.5°	58.9	60.0	58.4	58.4	57.8
85°	31.1	31.1	31.1	31.6	31.6
87.5°	10.9	10.9	11.5	11.5	10.9
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)