

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: P506331

Luminaire Tested: **22PD-50-PR1-L830**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506331  
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-50-PR1-L830  
Description: 5000 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
3000K LEDS  
Light Source: -  
Ballast/Driver: -

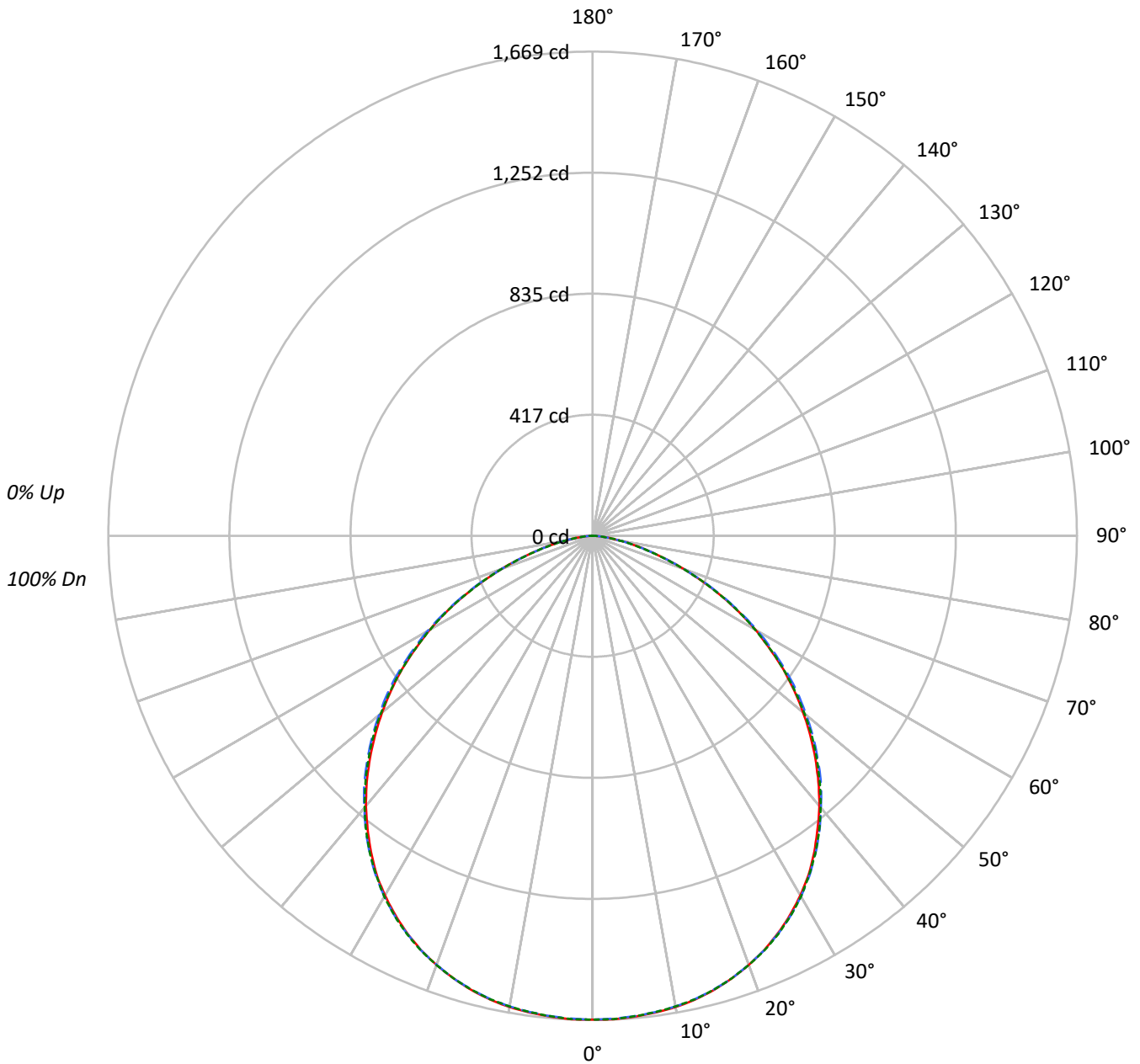
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4456.0 lumens  
Efficiency: N/A  
Efficacy: 106.3 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): 41.9  
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°	4487	4487	4487
5°	4494	4491	4491
10°	4508	4502	4502
15°	4514	4509	4511
20°	4507	4506	4509
25°	4488	4493	4497
30°	4447	4461	4463
35°	4373	4396	4394
40°	4271	4300	4294
45°	4131	4184	4162
50°	3963	4024	3991
55°	3762	3822	3767
60°	3488	3535	3476
65°	3111	3143	3108
70°	2617	2617	2600
75°	2050	2050	2027
80°	1502	1485	1477
85°	982	982	997



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.2	3.6
10°-20°	457.0	10.3
20°-30°	697.1	15.6
30°-40°	835.4	18.7
40°-50°	843.7	18.9
50°-60°	721.9	16.2
60°-70°	486.8	10.9
70°-80°	214.8	4.8
80°-90°	41.2	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°	1312.2	29.4
0°-40°	2147.7	48.2
0°-60°	3713.2	83.3
0°-90°	4456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4456.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1664	1662	1663	1662	1663	158
15°	1620	1620	1619	1618	1619	457
25°	1512	1513	1513	1513	1514	696
35°	1331	1339	1338	1337	1338	832
45°	1085	1094	1099	1098	1094	836
55°	802	809	815	814	803	714
65°	489	492	494	492	488	483
75°	197	198	197	198	195	215
85°	32	32	32	32	32	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1667.6	1667.6	1667.6	1667.6	1667.6
2.5°	1668.7	1666.5	1665.9	1665.4	1667.6
5°	1663.7	1661.5	1662.6	1661.5	1662.6
7.5°	1657.6	1655.3	1655.9	1654.8	1655.9
10°	1649.8	1647.5	1647.5	1646.4	1647.5
12.5°	1637.5	1635.8	1635.3	1634.2	1635.8
15°	1620.2	1619.7	1618.6	1618.0	1619.1
17.5°	1599.1	1597.9	1599.1	1597.4	1598.5
20°	1574.0	1574.5	1573.4	1574.0	1574.5
22.5°	1545.6	1545.6	1546.1	1546.1	1547.2
25°	1511.6	1513.3	1513.3	1513.3	1514.4
27.5°	1473.7	1475.9	1477.6	1476.5	1477.6
30°	1431.3	1435.2	1435.8	1435.2	1436.4
32.5°	1385.7	1388.4	1390.1	1389.0	1387.9
35°	1331.1	1338.9	1338.3	1337.2	1337.7
37.5°	1273.7	1281.5	1284.3	1282.0	1282.6
40°	1215.7	1222.4	1224.1	1224.6	1222.4
42.5°	1151.7	1159.5	1165.6	1162.8	1159.5
45°	1085.4	1093.7	1099.3	1097.6	1093.7
47.5°	1016.8	1024.6	1032.4	1029.6	1025.7
50°	946.6	954.4	961.1	960.0	953.3
52.5°	874.7	883.7	889.8	887.6	878.6
55°	801.8	809.0	814.6	813.5	802.9
57.5°	722.6	732.1	734.9	733.2	725.4
60°	648.0	654.1	656.9	654.7	645.8
62.5°	568.3	573.3	575.5	575.0	568.9
65°	488.6	492.5	493.6	492.5	488.1
67.5°	406.7	412.3	412.9	412.9	408.4
70°	332.6	334.3	332.6	337.1	330.4
72.5°	260.8	261.9	260.8	260.8	258.0
75°	197.2	197.8	197.2	197.8	195.0
77.5°	142.6	143.7	141.5	143.2	140.4
80°	96.9	96.9	95.8	96.4	95.3
82.5°	60.2	61.3	59.6	59.6	59.1
85°	31.8	31.8	31.8	32.3	32.3
87.5°	11.1	11.1	11.7	11.7	11.1
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)