

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: P506304

Luminaire Tested: **22PD-45-PR1-L830**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506304  
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-L830  
Description: 4500 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
3000K LEDS  
Light Source: -  
Ballast/Driver: -

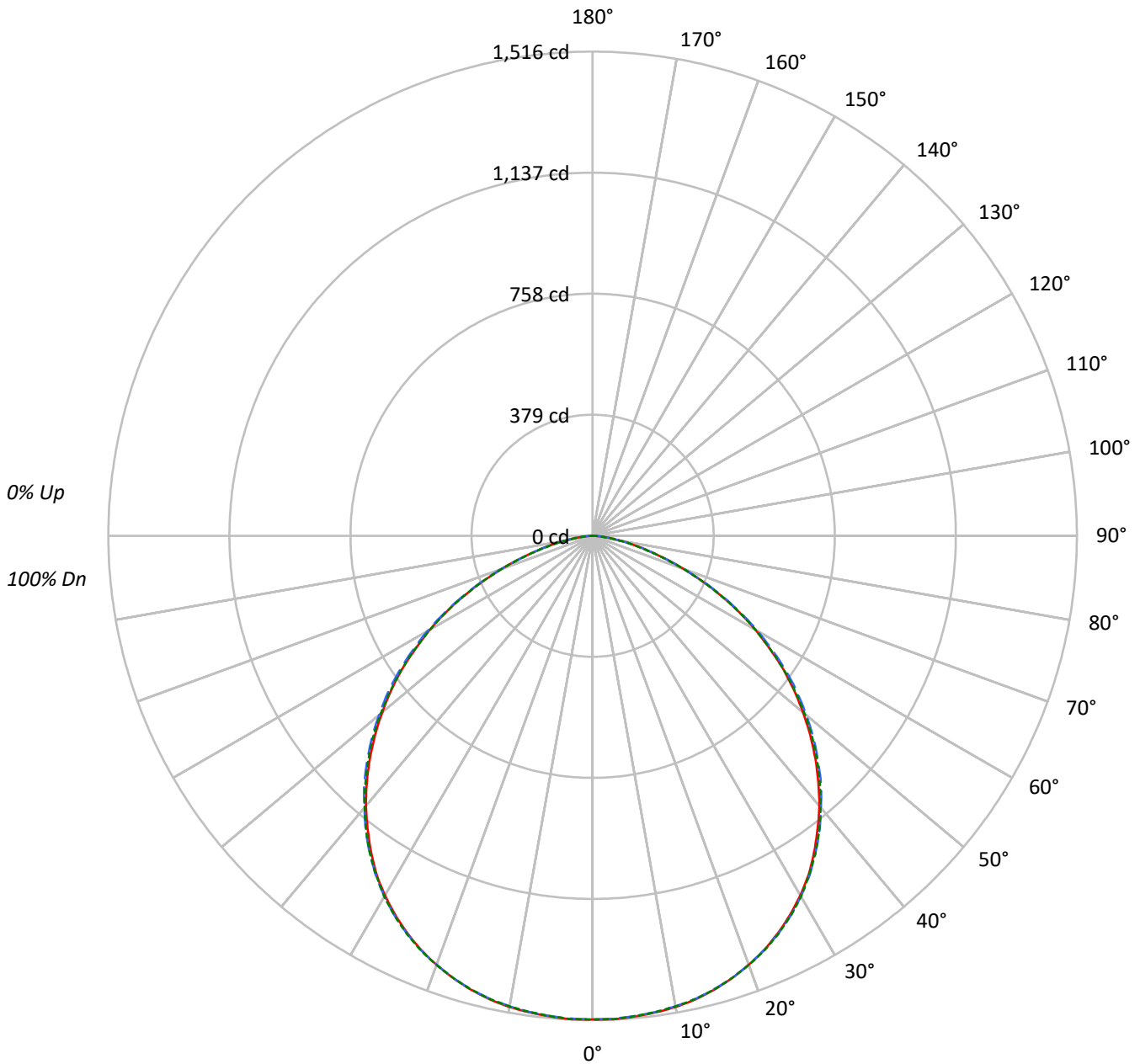
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4047.0 lumens  
Efficiency: N/A  
Efficacy: 107.1 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				20				
RC	80				70				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			100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85			85
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72			72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61			61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53			53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46			46
6	71	58	50	43	70	58	49	43	56	48	43	54	48	43	52	47	42	40			40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36			36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32			32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29			29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26			26

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

	0°	45°	90°
0°	4075	4075	4075
5°	4082	4079	4079
10°	4094	4089	4089
15°	4099	4095	4097
20°	4094	4092	4095
25°	4076	4081	4084
30°	4039	4052	4053
35°	3971	3993	3991
40°	3879	3905	3900
45°	3751	3800	3780
50°	3599	3654	3625
55°	3416	3471	3421
60°	3167	3211	3157
65°	2826	2855	2823
70°	2377	2377	2361
75°	1862	1862	1841
80°	1364	1348	1340
85°	889	889	905



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.7	3.6
10°-20°	415.0	10.3
20°-30°	633.1	15.6
30°-40°	758.7	18.7
40°-50°	766.3	18.9
50°-60°	655.6	16.2
60°-70°	442.1	10.9
70°-80°	195.0	4.8
80°-90°	37.4	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°	1191.8	29.4
0°-40°	1950.5	48.2
0°-60°	3372.4	83.3
0°-90°	4047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4047.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1511	1509	1510	1509	1510	144
15°	1472	1471	1470	1470	1470	415
25°	1373	1374	1374	1374	1375	632
35°	1209	1216	1216	1214	1215	756
45°	986	993	998	997	993	760
55°	728	735	740	739	729	649
65°	444	447	448	447	443	439
75°	179	180	179	180	177	195
85°	29	29	29	29	29	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1514.5	1514.5	1514.5	1514.5	1514.5
2.5°	1515.5	1513.5	1513.0	1512.5	1514.5
5°	1511.0	1509.0	1510.0	1509.0	1510.0
7.5°	1505.4	1503.4	1503.9	1502.9	1503.9
10°	1498.3	1496.3	1496.3	1495.3	1496.3
12.5°	1487.2	1485.7	1485.2	1484.2	1485.7
15°	1471.5	1471.0	1470.0	1469.5	1470.5
17.5°	1452.3	1451.3	1452.3	1450.8	1451.8
20°	1429.5	1430.0	1429.0	1429.5	1430.0
22.5°	1403.7	1403.7	1404.2	1404.2	1405.2
25°	1372.8	1374.4	1374.4	1374.4	1375.4
27.5°	1338.4	1340.5	1342.0	1341.0	1342.0
30°	1300.0	1303.5	1304.0	1303.5	1304.5
32.5°	1258.5	1261.0	1262.5	1261.5	1260.5
35°	1208.9	1216.0	1215.5	1214.5	1215.0
37.5°	1156.8	1163.9	1166.4	1164.4	1164.9
40°	1104.1	1110.2	1111.7	1112.2	1110.2
42.5°	1045.9	1053.0	1058.6	1056.1	1053.0
45°	985.7	993.3	998.4	996.9	993.3
47.5°	923.5	930.6	937.7	935.1	931.6
50°	859.7	866.8	872.9	871.9	865.8
52.5°	794.5	802.6	808.1	806.1	798.0
55°	728.2	734.7	739.8	738.8	729.2
57.5°	656.3	664.9	667.4	665.9	658.8
60°	588.5	594.1	596.6	594.6	586.5
62.5°	516.1	520.7	522.7	522.2	516.6
65°	443.8	447.3	448.3	447.3	443.3
67.5°	369.4	374.5	375.0	375.0	370.9
70°	302.1	303.6	302.1	306.1	300.1
72.5°	236.8	237.8	236.8	236.8	234.3
75°	179.1	179.6	179.1	179.6	177.1
77.5°	129.5	130.6	128.5	130.0	127.5
80°	88.0	88.0	87.0	87.5	86.5
82.5°	54.7	55.7	54.1	54.1	53.6
85°	28.8	28.8	28.8	29.3	29.3
87.5°	10.1	10.1	10.6	10.6	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)