

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: P506659

Luminaire Tested: **24PD-45-PR1-L927**

Issue Date: 3/26/2021



**Test Information**

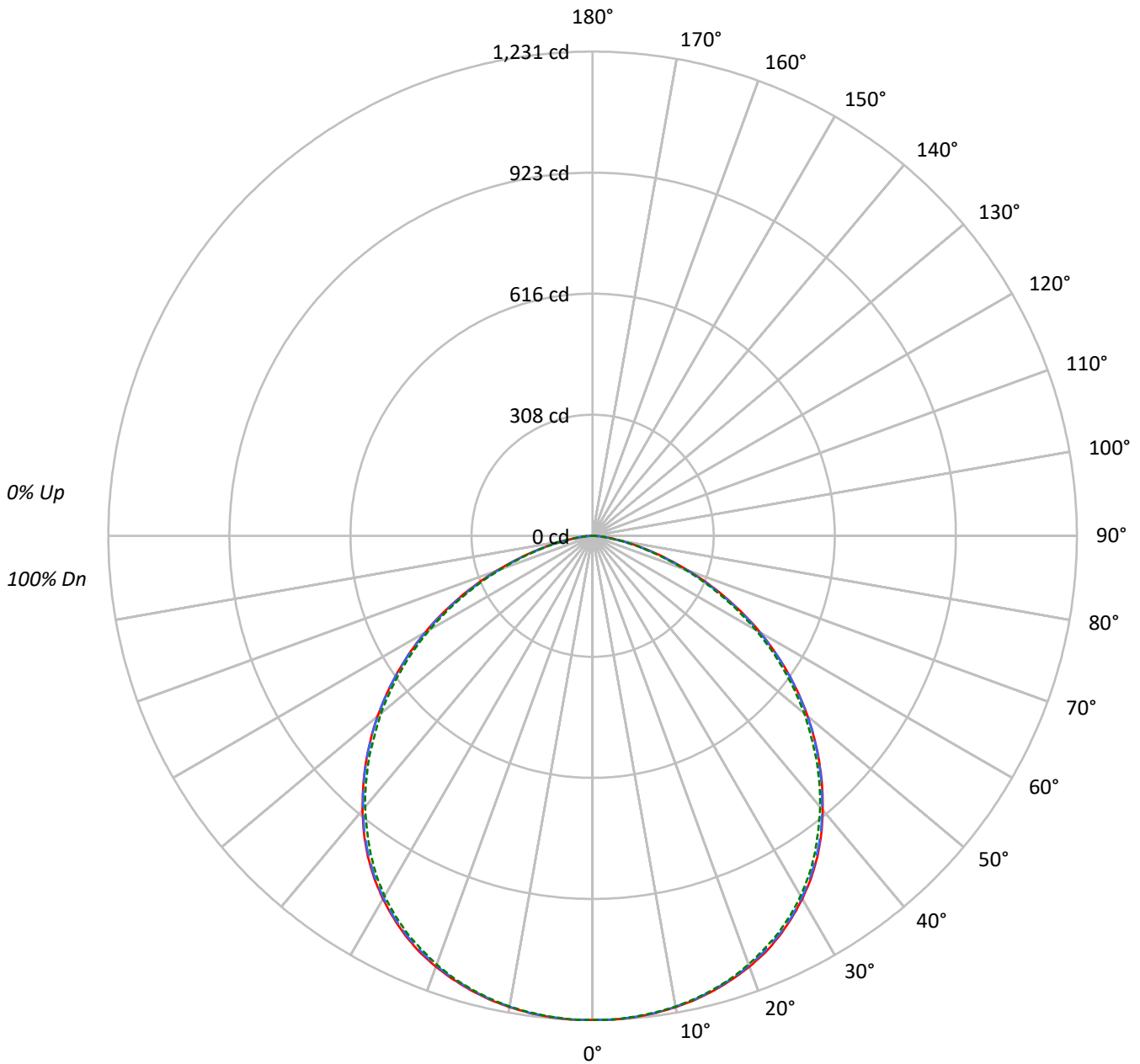
Test Method: LM-79-08  
Report Number: P506659  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-45-PR1-L927  
Description: 4500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 90 CRI,  
2700K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3314.0 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33  
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	87	85																			
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72																			
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61																			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52																			
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46																			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40																			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35																			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32																			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28																			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26																			

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

	0°	45°	90°
0°	1656	1656	1656
5°	1659	1658	1657
10°	1663	1661	1661
15°	1666	1664	1662
20°	1669	1665	1660
25°	1667	1663	1656
30°	1656	1652	1643
35°	1636	1631	1618
40°	1598	1594	1580
45°	1551	1549	1531
50°	1493	1493	1470
55°	1420	1417	1390
60°	1323	1318	1288
65°	1192	1178	1151
70°	1018	1003	978
75°	805	787	768
80°	572	556	539
85°	344	333	324



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.8	3.5
10°-20°	337.3	10.2
20°-30°	515.7	15.6
30°-40°	619.3	18.7
40°-50°	625.8	18.9
50°-60°	537.7	16.2
60°-70°	366.8	11.1
70°-80°	164.9	5.0
80°-90°	29.6	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°	969.8	29.3
0°-40°	1589.1	48.0
0°-60°	2752.6	83.1
0°-90°	3314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3314.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1228	1228	1228	1227	1227	117
15°	1196	1196	1194	1194	1193	338
25°	1123	1123	1120	1116	1115	517
35°	996	996	993	987	985	622
45°	815	817	814	808	805	628
55°	605	608	604	599	593	540
65°	374	376	370	368	362	371
75°	155	156	151	150	148	168
85°	22	23	22	22	21	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1231.0	1231.0	1231.0	1231.0	1231.0
2.5°	1231.3	1231.0	1230.7	1230.0	1231.0
5°	1228.4	1228.1	1227.8	1227.2	1227.2
7.5°	1224.0	1223.3	1223.3	1222.4	1222.1
10°	1217.0	1216.7	1215.7	1215.7	1215.4
12.5°	1208.1	1207.4	1206.5	1206.2	1205.5
15°	1196.0	1195.7	1194.4	1193.5	1193.1
17.5°	1182.3	1181.4	1180.4	1178.2	1178.2
20°	1165.8	1165.2	1162.9	1160.7	1159.4
22.5°	1146.7	1145.4	1142.9	1140.7	1138.1
25°	1123.2	1122.9	1120.0	1116.2	1115.2
27.5°	1095.9	1096.5	1093.6	1089.8	1087.9
30°	1066.0	1067.2	1063.1	1058.3	1057.4
32.5°	1033.2	1033.5	1030.0	1025.0	1023.1
35°	996.0	996.0	992.8	986.8	984.9
37.5°	954.7	954.4	952.5	945.5	942.0
40°	909.9	911.5	907.6	901.3	899.7
42.5°	863.5	865.4	861.9	856.5	853.0
45°	815.1	817.4	813.9	808.1	804.6
47.5°	765.2	766.8	764.3	757.0	752.2
50°	713.4	716.6	713.1	705.5	702.3
52.5°	660.0	663.5	659.4	653.6	647.6
55°	605.3	607.5	604.0	598.6	592.6
57.5°	549.0	553.5	547.8	541.4	536.3
60°	491.8	495.6	489.9	484.2	478.8
62.5°	433.6	436.2	429.8	426.3	420.0
65°	374.5	376.4	370.1	367.5	361.5
67.5°	316.0	317.6	311.6	308.1	304.6
70°	258.8	260.1	255.0	251.8	248.6
72.5°	204.7	205.1	200.3	199.3	195.5
75°	154.8	156.1	151.3	150.4	147.8
77.5°	111.3	111.6	108.4	107.8	105.5
80°	73.8	74.1	71.8	71.5	69.6
82.5°	44.5	44.8	42.9	42.9	41.6
85°	22.3	22.6	21.6	21.6	21.0
87.5°	7.6	7.9	7.6	7.6	7.3
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)