

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: P506299

Luminaire Tested: **22PD-45-PL1-L927**

Issue Date: 3/26/2021



**Test Information**

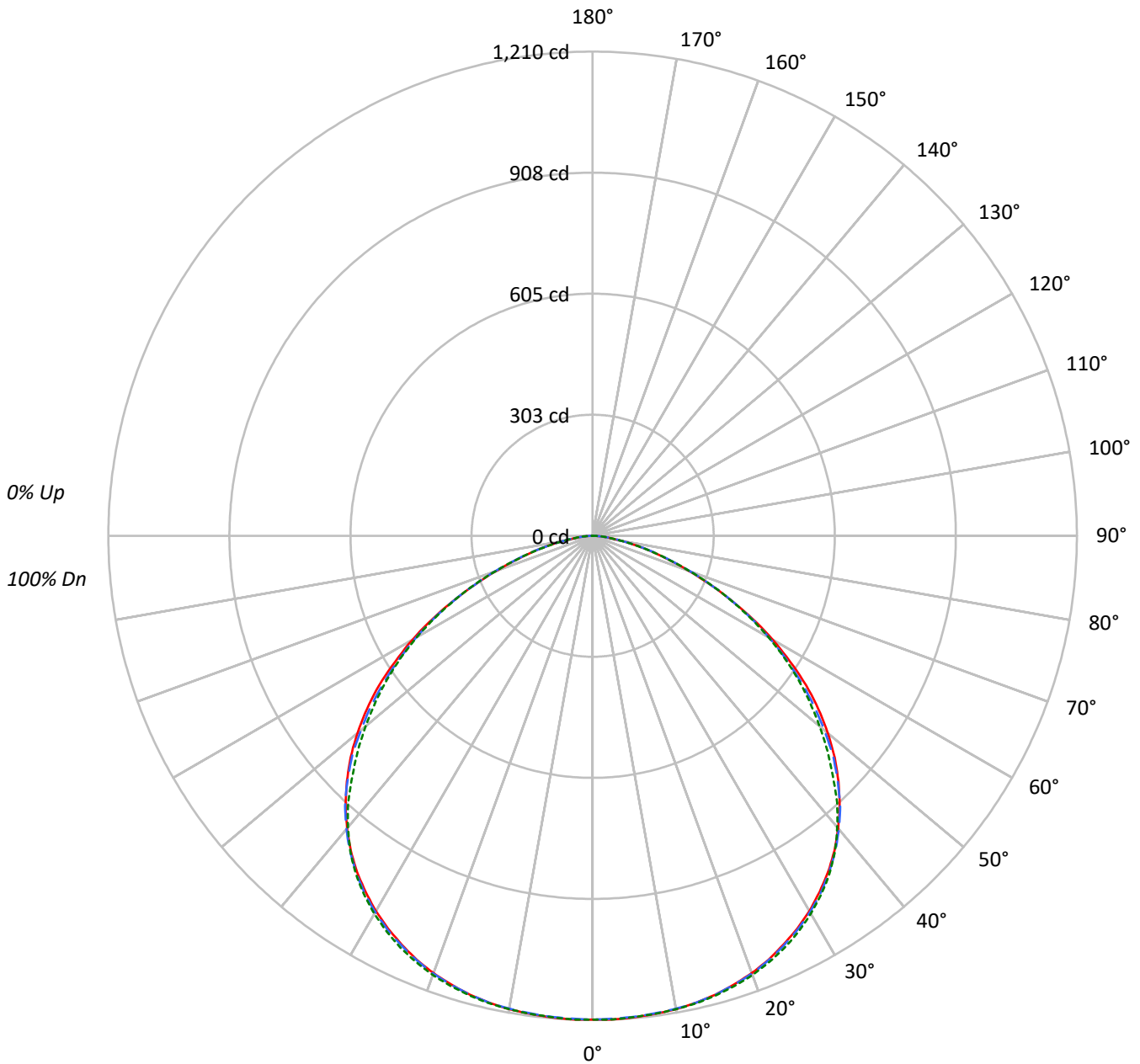
Test Method: LM-79-08  
Report Number: P506299  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-45-PL1-L927  
Description: 4500 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,  
2700K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3424.4 lumens  
Efficiency: N/A  
Efficacy: 90.6 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<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	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	63	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°	3253	3253	3253
5°	3262	3259	3260
10°	3283	3279	3283
15°	3306	3306	3314
20°	3330	3334	3345
25°	3348	3356	3372
30°	3365	3376	3389
35°	3370	3381	3389
40°	3353	3362	3341
45°	3305	3295	3229
50°	3211	3162	3098
55°	3056	2978	2944
60°	2798	2745	2729
65°	2439	2434	2426
70°	1999	2033	2026
75°	1585	1612	1585
80°	1161	1155	1148
85°	775	763	815



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.0	3.4
10°-20°	335.5	9.8
20°-30°	521.4	15.2
30°-40°	642.8	18.8
40°-50°	663.9	19.4
50°-60°	568.1	16.6
60°-70°	379.2	11.1
70°-80°	166.4	4.9
80°-90°	32.2	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°	971.8	28.4
0°-40°	1614.6	47.2
0°-60°	2846.7	83.1
0°-90°	3424.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3424.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1209	1209	1209	1209	1209	
5°	1208	1206	1206	1206	1207	115
15°	1187	1186	1187	1188	1189	335
25°	1128	1128	1130	1134	1136	520
35°	1026	1026	1029	1032	1032	641
45°	868	868	866	858	848	668
55°	651	643	635	631	628	579
65°	383	382	382	384	381	380
75°	152	151	155	154	152	165
85°	25	25	25	26	26	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1209.0	1209.0	1209.0	1209.0	1209.0
2.5°	1209.8	1208.1	1207.7	1207.7	1209.8
5°	1207.7	1206.0	1206.4	1205.6	1206.8
7.5°	1204.7	1203.0	1203.4	1203.0	1204.7
10°	1201.3	1199.6	1200.0	1199.6	1201.3
12.5°	1195.3	1194.1	1194.9	1195.3	1196.6
15°	1186.8	1185.6	1186.8	1187.7	1189.4
17.5°	1175.8	1174.9	1176.2	1177.5	1179.6
20°	1163.0	1162.1	1164.3	1165.5	1168.1
22.5°	1147.2	1146.4	1148.5	1151.5	1153.2
25°	1127.7	1127.7	1130.2	1133.6	1135.8
27.5°	1106.8	1106.4	1109.4	1112.8	1114.9
30°	1083.0	1082.1	1086.4	1089.4	1090.6
32.5°	1055.3	1055.7	1059.6	1062.5	1063.0
35°	1025.9	1025.9	1029.3	1031.5	1031.5
37.5°	992.3	991.9	995.3	996.1	994.8
40°	954.4	954.8	957.0	956.5	951.0
42.5°	913.5	914.0	915.7	909.7	904.2
45°	868.4	868.0	865.9	857.8	848.4
47.5°	820.3	818.2	814.8	802.4	795.6
50°	767.1	763.7	755.2	745.4	739.9
52.5°	710.9	704.9	696.4	688.8	684.1
55°	651.3	643.2	634.7	631.3	627.5
57.5°	584.9	579.8	572.6	570.9	568.3
60°	519.8	514.2	510.0	510.0	507.0
62.5°	451.7	448.3	446.6	447.4	444.4
65°	383.1	382.3	382.3	383.6	381.0
67.5°	316.7	318.4	318.0	322.3	318.8
70°	254.1	257.1	258.4	262.7	257.5
72.5°	200.1	200.5	202.2	203.5	200.9
75°	152.4	151.1	155.0	154.1	152.4
77.5°	110.3	109.4	110.7	111.5	109.4
80°	74.9	74.1	74.5	75.8	74.1
82.5°	47.3	46.4	46.4	47.7	47.3
85°	25.1	24.7	24.7	25.5	26.4
87.5°	8.9	8.5	8.9	8.9	8.9
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)