

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: P506308

Luminaire Tested: **22PD-45-PR1-L927**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506308  
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-L927  
Description: 4500 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 90 CRI,  
2700K LEDS  
Light Source: -  
Ballast/Driver: -

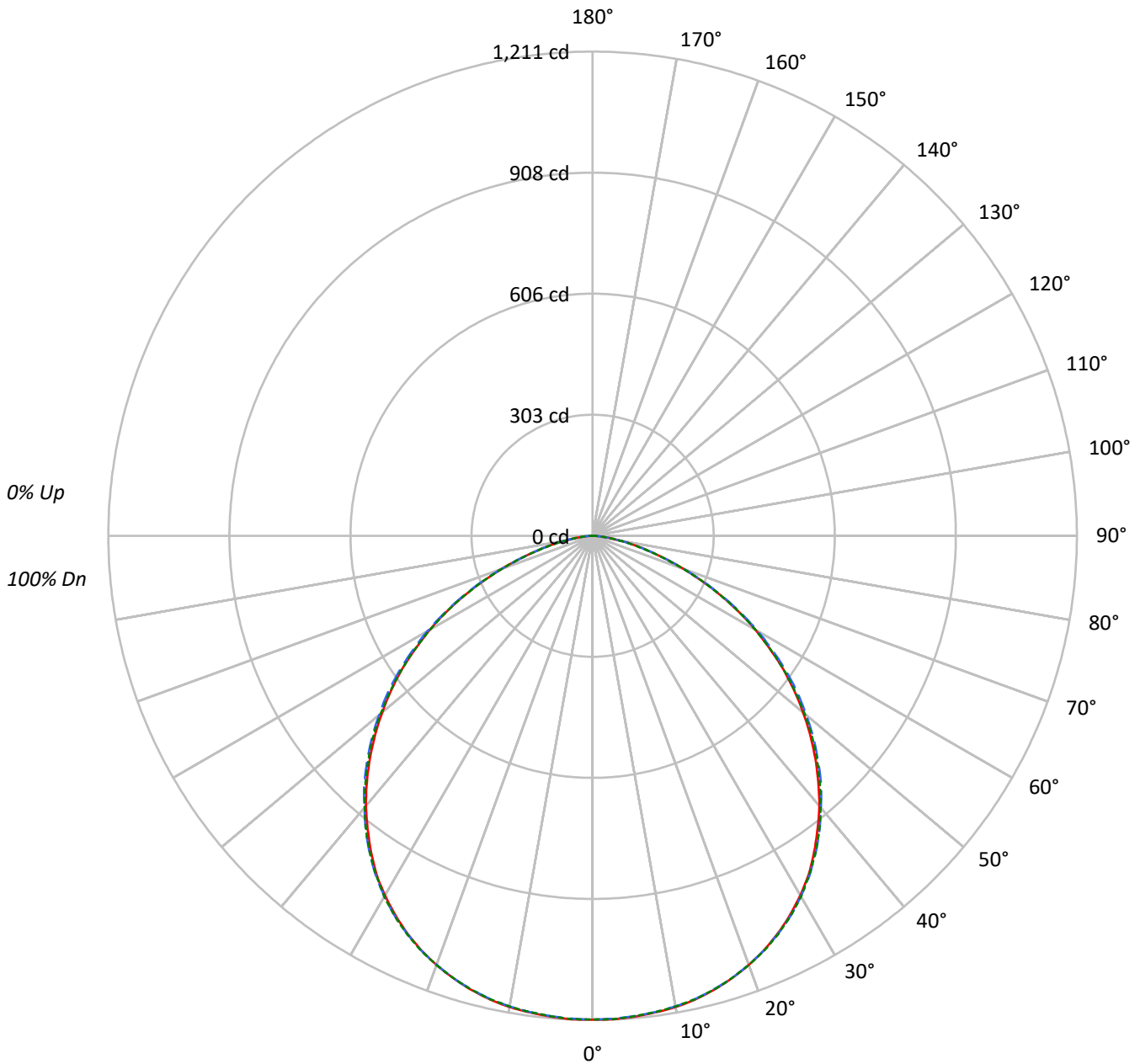
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3233.0 lumens  
Efficiency: N/A  
Efficacy: 85.5 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°	3256	3256	3256
5°	3261	3259	3259
10°	3271	3266	3266
15°	3275	3271	3273
20°	3270	3269	3271
25°	3256	3260	3262
30°	3227	3237	3238
35°	3172	3190	3188
40°	3099	3120	3116
45°	2997	3035	3020
50°	2875	2919	2896
55°	2729	2773	2733
60°	2530	2565	2521
65°	2257	2281	2255
70°	1899	1899	1886
75°	1488	1488	1471
80°	1089	1077	1071
85°	710	710	722



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.8	3.6
10°-20°	331.6	10.3
20°-30°	505.7	15.6
30°-40°	606.1	18.7
40°-50°	612.2	18.9
50°-60°	523.7	16.2
60°-70°	353.2	10.9
70°-80°	155.8	4.8
80°-90°	29.9	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°	952.1	29.4
0°-40°	1558.2	48.2
0°-60°	2694.1	83.3
0°-90°	3233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3233.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1210	1210	1210	1210	1210	
5°	1207	1206	1206	1206	1206	115
15°	1176	1175	1174	1174	1175	332
25°	1097	1098	1098	1098	1099	505
35°	966	971	971	970	971	604
45°	788	794	798	796	794	607
55°	582	587	591	590	582	518
65°	354	357	358	357	354	350
75°	143	144	143	144	142	156
85°	23	23	23	23	23	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1209.9	1209.9	1209.9	1209.9	1209.9
2.5°	1210.7	1209.1	1208.7	1208.3	1209.9
5°	1207.1	1205.5	1206.3	1205.5	1206.3
7.5°	1202.6	1201.0	1201.4	1200.6	1201.4
10°	1197.0	1195.3	1195.3	1194.5	1195.3
12.5°	1188.1	1186.9	1186.5	1185.6	1186.9
15°	1175.5	1175.1	1174.3	1173.9	1174.7
17.5°	1160.2	1159.4	1160.2	1159.0	1159.8
20°	1142.0	1142.4	1141.6	1142.0	1142.4
22.5°	1121.4	1121.4	1121.8	1121.8	1122.6
25°	1096.7	1097.9	1097.9	1097.9	1098.7
27.5°	1069.2	1070.8	1072.1	1071.2	1072.1
30°	1038.5	1041.3	1041.7	1041.3	1042.1
32.5°	1005.4	1007.4	1008.6	1007.8	1007.0
35°	965.7	971.4	971.0	970.2	970.6
37.5°	924.1	929.8	931.8	930.2	930.6
40°	882.1	886.9	888.1	888.5	886.9
42.5°	835.6	841.2	845.7	843.7	841.2
45°	787.5	793.5	797.6	796.4	793.5
47.5°	737.7	743.4	749.1	747.0	744.2
50°	686.8	692.5	697.3	696.5	691.7
52.5°	634.7	641.1	645.6	644.0	637.5
55°	581.7	587.0	591.0	590.2	582.5
57.5°	524.3	531.2	533.2	532.0	526.3
60°	470.1	474.6	476.6	475.0	468.5
62.5°	412.3	416.0	417.6	417.2	412.7
65°	354.5	357.4	358.2	357.4	354.1
67.5°	295.1	299.1	299.5	299.5	296.3
70°	241.3	242.5	241.3	244.6	239.7
72.5°	189.2	190.0	189.2	189.2	187.2
75°	143.1	143.5	143.1	143.5	141.5
77.5°	103.5	104.3	102.7	103.9	101.9
80°	70.3	70.3	69.5	69.9	69.1
82.5°	43.7	44.5	43.3	43.3	42.8
85°	23.0	23.0	23.0	23.4	23.4
87.5°	8.1	8.1	8.5	8.5	8.1
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)