

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: P506910

Luminaire Tested: **24PD-90-PW1-L850**

Issue Date: 3/26/2021



**Test Information**

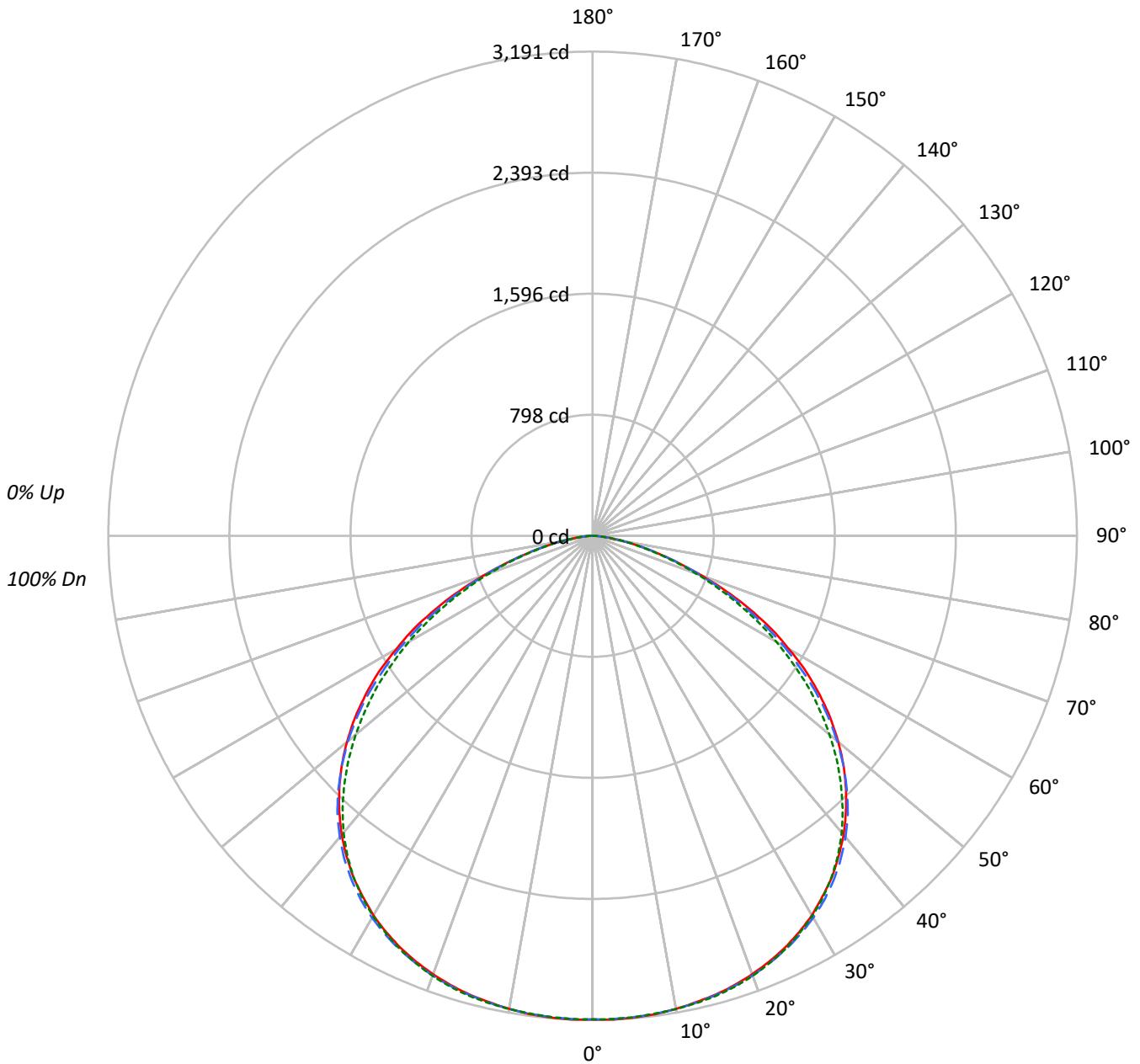
Test Method: LM-79-08  
Report Number: P506910  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-90-PW1-L850  
Description: 9000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9348.2 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.45  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 69.7  
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71																			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60																			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52																			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

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

	0°	45°	90°
0°	4289	4289	4289
5°	4304	4299	4299
10°	4326	4326	4327
15°	4361	4365	4373
20°	4403	4417	4419
25°	4449	4468	4462
30°	4488	4517	4496
35°	4514	4549	4510
40°	4519	4553	4485
45°	4493	4509	4401
50°	4422	4402	4264
55°	4282	4213	4062
60°	4021	3918	3765
65°	3627	3493	3352
70°	2990	2944	2836
75°	2285	2309	2216
80°	1586	1634	1600
85°	948	990	962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.4	3.2
10°-20°	886.2	9.5
20°-30°	1386.0	14.8
30°-40°	1724.0	18.4
40°-50°	1811.7	19.4
50°-60°	1590.3	17.0
60°-70°	1082.9	11.6
70°-80°	477.7	5.1
80°-90°	86.0	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°	2575.6	27.6
0°-40°	4299.6	46.0
0°-60°	7701.6	82.4
0°-90°	9348.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9348.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3188	3188	3188	3188	3188	
5°	3187	3186	3183	3180	3183	304
15°	3131	3134	3134	3134	3140	885
25°	2996	3004	3010	3008	3005	1382
35°	2748	2761	2770	2756	2746	1717
45°	2361	2376	2370	2331	2313	1818
55°	1825	1818	1796	1749	1732	1627
65°	1139	1112	1097	1073	1053	1123
75°	440	442	444	436	426	481
85°	61	64	64	63	62	84
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3187.8	3187.8	3187.8	3187.8	3187.8
2.5°	3191.4	3189.6	3187.8	3185.1	3187.8
5°	3186.9	3186.0	3183.3	3179.8	3183.3
7.5°	3179.8	3179.8	3177.1	3174.4	3176.2
10°	3166.4	3169.1	3166.4	3163.8	3167.3
12.5°	3148.6	3153.1	3152.2	3152.2	3154.9
15°	3130.8	3134.4	3133.5	3133.5	3139.7
17.5°	3105.9	3110.4	3111.3	3113.0	3116.6
20°	3074.8	3081.0	3084.6	3083.7	3086.3
22.5°	3038.3	3045.4	3048.1	3049.9	3048.1
25°	2996.5	3004.5	3009.8	3008.0	3005.4
27.5°	2945.7	2954.6	2961.7	2957.3	2952.0
30°	2888.8	2896.8	2907.5	2899.5	2894.1
32.5°	2818.5	2833.6	2843.4	2833.6	2825.6
35°	2748.2	2760.6	2769.5	2756.2	2745.5
37.5°	2662.7	2677.9	2685.9	2667.2	2655.6
40°	2572.8	2588.0	2592.4	2568.4	2553.3
42.5°	2470.5	2487.4	2489.2	2455.4	2438.5
45°	2361.0	2376.2	2369.9	2330.8	2313.0
47.5°	2242.7	2253.3	2240.0	2200.0	2180.4
50°	2112.7	2119.0	2102.9	2055.8	2037.1
52.5°	1975.7	1974.8	1954.3	1907.2	1886.7
55°	1825.3	1818.2	1795.9	1748.7	1731.8
57.5°	1671.3	1649.1	1625.0	1585.0	1562.7
60°	1494.2	1477.3	1456.0	1415.9	1399.0
62.5°	1326.9	1296.7	1278.9	1243.3	1228.1
65°	1139.1	1111.5	1097.3	1073.3	1052.8
67.5°	950.5	929.1	919.3	902.4	883.7
70°	760.0	753.8	748.4	732.4	720.9
72.5°	591.8	590.0	589.1	580.2	568.7
75°	439.6	442.3	444.1	436.1	426.3
77.5°	313.3	317.7	316.8	312.4	309.7
80°	204.7	208.2	210.9	206.5	206.5
82.5°	123.7	127.3	126.4	128.2	124.6
85°	61.4	64.1	64.1	63.2	62.3
87.5°	22.2	23.1	22.2	23.1	22.2
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)