

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: P506897

Luminaire Tested: **24PD-90-PL1-L950**

Issue Date: 3/26/2021



**Test Information**

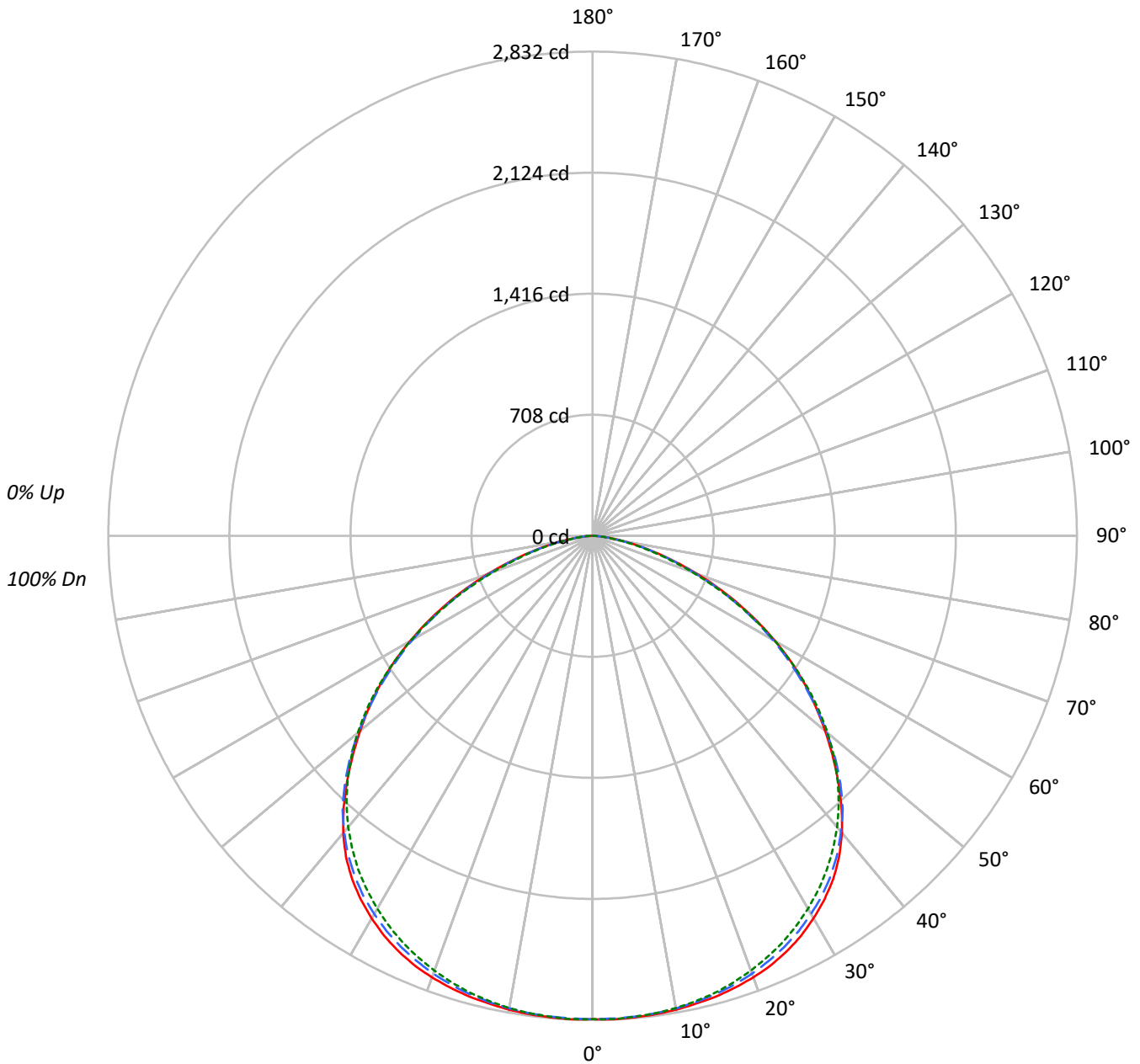
Test Method: LM-79-08  
Report Number: P506897  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-90-PL1-L950  
Description: 9000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8111.5 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43  
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	99	96	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72																			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61																			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52																			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																			
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39																			
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

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

	0°	45°	90°
0°	3805	3805	3805
5°	3819	3813	3814
10°	3845	3835	3831
15°	3886	3866	3855
20°	3935	3902	3875
25°	3983	3938	3898
30°	4014	3968	3913
35°	4028	3987	3921
40°	3985	3970	3906
45°	3863	3898	3855
50°	3713	3741	3754
55°	3553	3525	3578
60°	3323	3269	3311
65°	2990	2931	2928
70°	2546	2489	2431
75°	2005	1960	1880
80°	1433	1392	1314
85°	849	837	777



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.1	3.3
10°-20°	784.8	9.7
20°-30°	1223.4	15.1
30°-40°	1513.9	18.7
40°-50°	1569.4	19.3
50°-60°	1351.3	16.7
60°-70°	916.8	11.3
70°-80°	409.1	5.0
80°-90°	73.6	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°	2277.3	28.1
0°-40°	3791.3	46.7
0°-60°	6712.0	82.7
0°-90°	8111.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8111.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2828	2828	2828	2828	2828	
5°	2828	2824	2823	2823	2824	270
15°	2790	2782	2776	2770	2767	789
25°	2683	2673	2653	2633	2626	1237
35°	2452	2445	2427	2401	2387	1530
45°	2030	2039	2049	2041	2026	1565
55°	1514	1515	1503	1520	1525	1351
65°	939	943	921	910	920	929
75°	386	389	377	368	362	418
85°	55	56	54	54	50	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2827.6	2827.6	2827.6	2827.6	2827.6
2.5°	2831.5	2825.3	2826.1	2826.8	2829.9
5°	2827.6	2823.7	2823.0	2823.0	2823.7
7.5°	2823.0	2818.3	2817.5	2816.8	2816.8
10°	2814.4	2809.8	2806.7	2805.1	2804.4
12.5°	2802.8	2797.4	2793.5	2790.4	2788.1
15°	2789.7	2781.9	2775.7	2769.5	2767.2
17.5°	2771.1	2764.1	2753.3	2743.2	2739.3
20°	2747.9	2740.9	2725.4	2711.5	2706.0
22.5°	2720.8	2710.7	2691.3	2675.8	2668.1
25°	2682.8	2672.7	2652.6	2633.3	2625.5
27.5°	2638.7	2629.4	2607.7	2584.5	2575.2
30°	2583.7	2577.5	2554.3	2528.7	2518.7
32.5°	2522.5	2516.3	2496.2	2467.6	2456.0
35°	2452.1	2445.1	2427.3	2401.0	2387.0
37.5°	2368.5	2366.1	2349.1	2322.0	2308.8
40°	2268.6	2273.2	2260.1	2236.8	2223.7
42.5°	2154.8	2164.8	2164.8	2143.2	2130.0
45°	2030.1	2039.4	2048.7	2041.0	2026.2
47.5°	1902.4	1912.4	1923.3	1926.4	1914.0
50°	1773.8	1780.0	1787.0	1800.9	1793.2
52.5°	1646.1	1648.4	1646.1	1664.7	1663.1
55°	1514.5	1515.2	1502.8	1519.9	1525.3
57.5°	1377.4	1379.7	1359.6	1368.9	1380.5
60°	1234.9	1237.3	1214.8	1216.4	1230.3
62.5°	1087.8	1090.9	1068.5	1063.1	1075.4
65°	939.2	943.0	920.6	910.5	919.8
67.5°	791.3	795.9	775.0	762.6	765.0
70°	647.3	651.2	632.6	621.0	617.9
72.5°	510.2	514.1	499.4	487.8	482.4
75°	385.6	388.7	377.1	368.5	361.6
77.5°	277.2	279.5	270.2	264.0	257.1
80°	185.0	185.8	179.6	175.8	169.6
82.5°	110.7	111.5	107.6	106.1	101.4
85°	55.0	55.7	54.2	54.2	50.3
87.5°	19.4	18.6	19.4	19.4	17.0
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)