

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: P506893

Luminaire Tested: **24PD-90-PL1-L927**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506893  
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-L927  
Description: 9000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,  
2700K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

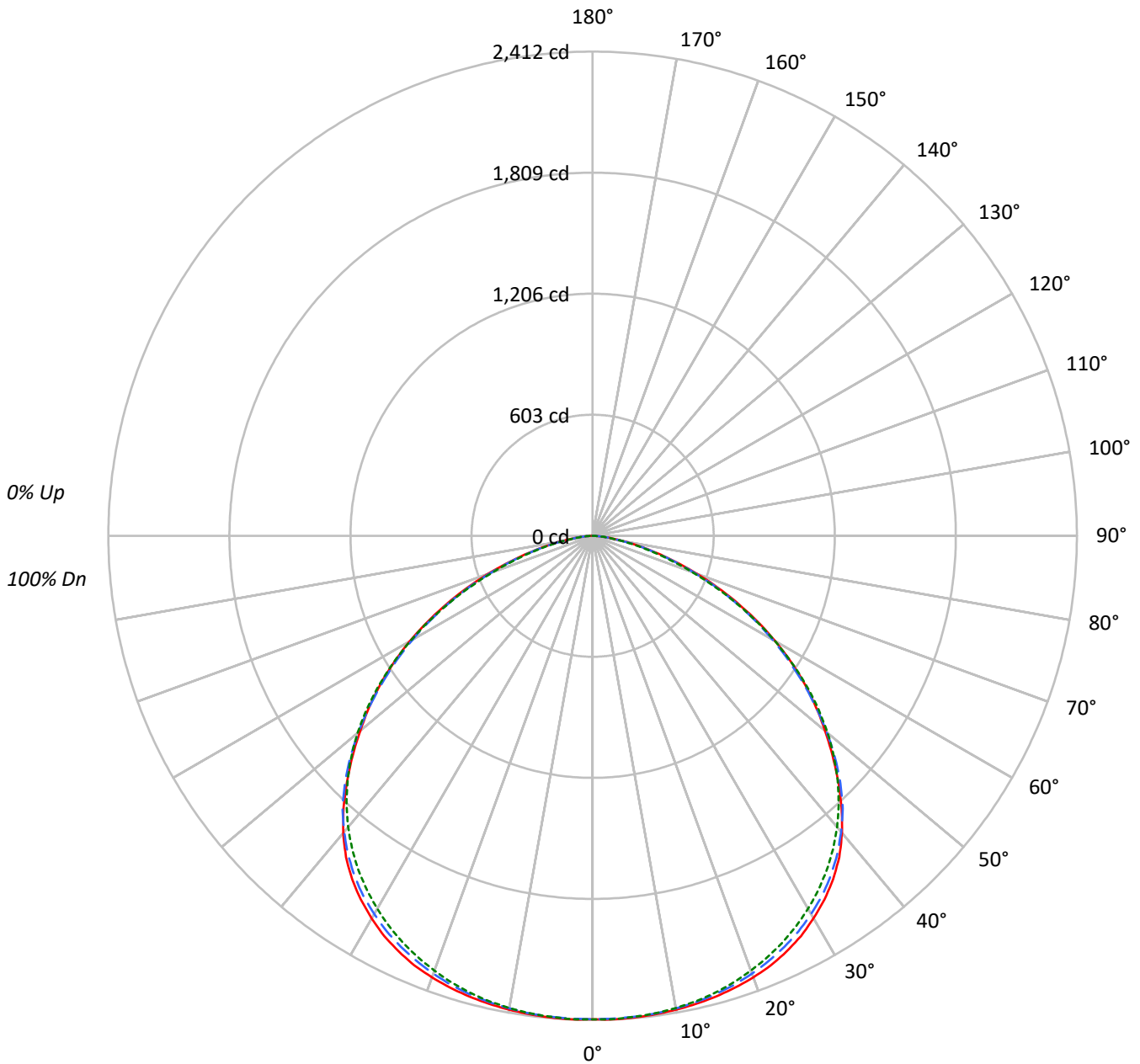
Lumens per Lamp: N/A  
Luminaire Lumens: 6909.8 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	3241	3241	3241
5°	3253	3248	3249
10°	3276	3267	3264
15°	3310	3294	3283
20°	3352	3324	3301
25°	3393	3355	3320
30°	3419	3381	3333
35°	3431	3396	3340
40°	3394	3381	3327
45°	3291	3321	3284
50°	3163	3186	3197
55°	3026	3003	3048
60°	2831	2785	2820
65°	2547	2497	2494
70°	2169	2120	2070
75°	1708	1670	1601
80°	1221	1185	1119
85°	722	713	662



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.2	3.3
10°-20°	668.6	9.7
20°-30°	1042.2	15.1
30°-40°	1289.6	18.7
40°-50°	1336.9	19.3
50°-60°	1151.1	16.7
60°-70°	781.0	11.3
70°-80°	348.5	5.0
80°-90°	62.7	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°	1940.0	28.1
0°-40°	3229.6	46.7
0°-60°	5717.6	82.7
0°-90°	6909.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6909.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2409	2409	2409	2409	2409	
5°	2409	2405	2405	2405	2405	230
15°	2376	2370	2364	2359	2357	672
25°	2285	2277	2260	2243	2236	1054
35°	2089	2083	2068	2045	2033	1304
45°	1729	1737	1745	1739	1726	1333
55°	1290	1291	1280	1295	1299	1151
65°	800	803	784	776	784	792
75°	328	331	321	314	308	356
85°	47	48	46	46	43	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2408.7	2408.7	2408.7	2408.7	2408.7
2.5°	2412.0	2406.7	2407.4	2408.0	2410.7
5°	2408.7	2405.4	2404.7	2404.7	2405.4
7.5°	2404.7	2400.8	2400.1	2399.4	2399.4
10°	2397.5	2393.5	2390.9	2389.6	2388.9
12.5°	2387.6	2383.0	2379.7	2377.0	2375.0
15°	2376.4	2369.8	2364.5	2359.2	2357.2
17.5°	2360.5	2354.6	2345.4	2336.8	2333.5
20°	2340.7	2334.8	2321.6	2309.8	2305.1
22.5°	2317.7	2309.1	2292.6	2279.4	2272.8
25°	2285.3	2276.8	2259.6	2243.1	2236.5
27.5°	2247.8	2239.8	2221.4	2201.6	2193.7
30°	2200.9	2195.6	2175.9	2154.1	2145.5
32.5°	2148.8	2143.5	2126.4	2102.0	2092.1
35°	2088.8	2082.9	2067.7	2045.3	2033.4
37.5°	2017.6	2015.6	2001.1	1978.0	1966.8
40°	1932.5	1936.4	1925.2	1905.4	1894.2
42.5°	1835.5	1844.1	1844.1	1825.6	1814.4
45°	1729.3	1737.3	1745.2	1738.6	1726.0
47.5°	1620.5	1629.1	1638.3	1641.0	1630.4
50°	1511.0	1516.3	1522.2	1534.1	1527.5
52.5°	1402.2	1404.2	1402.2	1418.0	1416.7
55°	1290.1	1290.7	1280.2	1294.7	1299.3
57.5°	1173.3	1175.3	1158.2	1166.1	1176.0
60°	1052.0	1054.0	1034.8	1036.2	1048.0
62.5°	926.7	929.3	910.2	905.6	916.1
65°	800.0	803.3	784.2	775.6	783.5
67.5°	674.1	678.0	660.2	649.7	651.6
70°	551.4	554.7	538.9	529.0	526.3
72.5°	434.6	437.9	425.4	415.5	410.9
75°	328.5	331.1	321.2	313.9	308.0
77.5°	236.1	238.1	230.2	224.9	219.0
80°	157.6	158.3	153.0	149.7	144.4
82.5°	94.3	95.0	91.7	90.4	86.4
85°	46.8	47.5	46.2	46.2	42.9
87.5°	16.5	15.8	16.5	16.5	14.5
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)