

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: P506792

Luminaire Tested: **24PD-70-PR1-L840**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506792  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-70-PR1-L840  
Description: 7000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

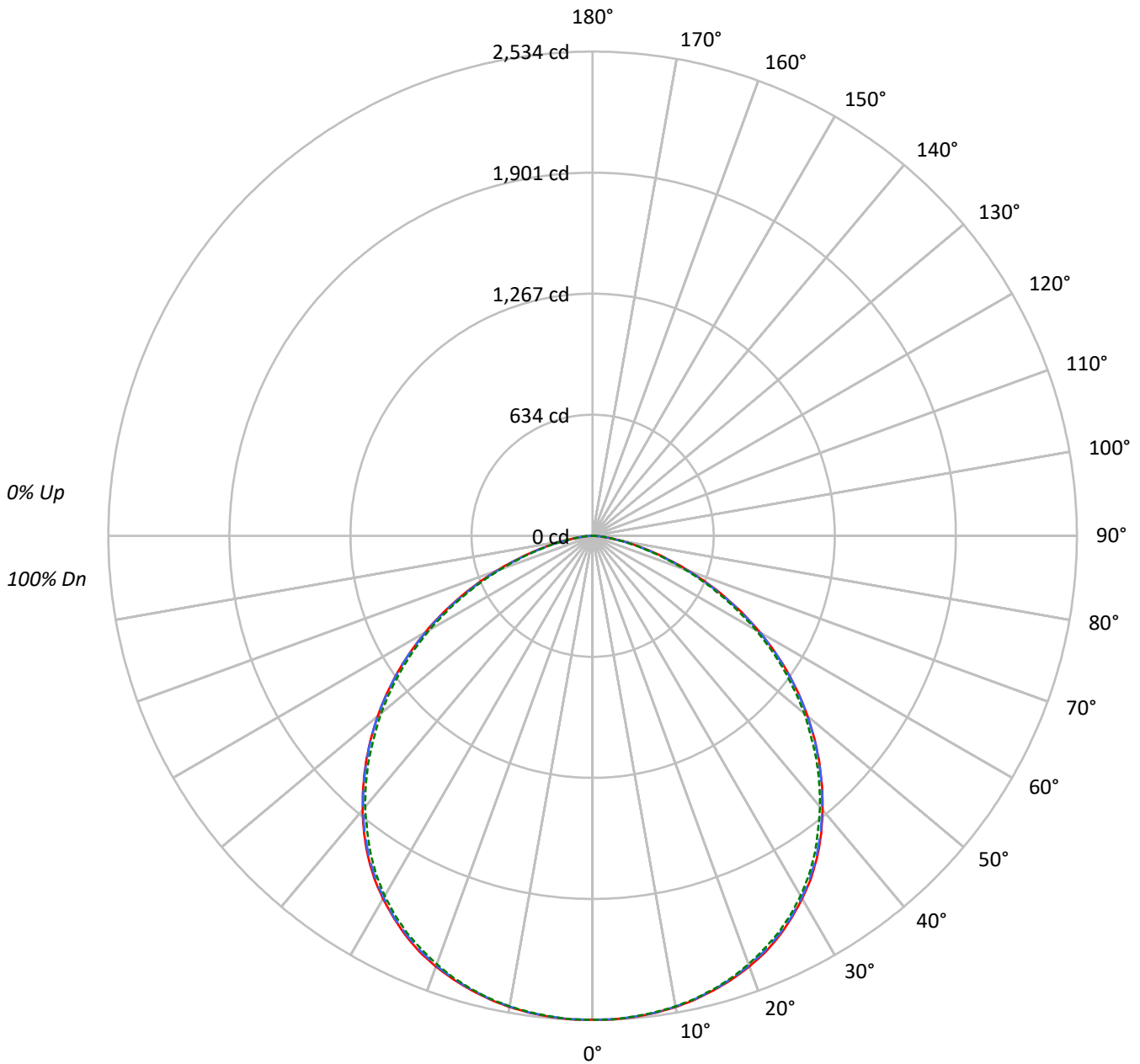
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6819.0 lumens  
Efficiency: N/A  
Efficacy: 132.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 51.5  
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	87	85																			
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72																			
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61																			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52																			
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46																			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40																			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35																			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32																			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28																			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26																			

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

	0°	45°	90°
0°	3408	3408	3408
5°	3414	3412	3410
10°	3421	3418	3417
15°	3428	3423	3420
20°	3435	3426	3416
25°	3431	3421	3407
30°	3408	3399	3380
35°	3366	3356	3329
40°	3288	3280	3252
45°	3192	3186	3150
50°	3073	3071	3025
55°	2922	2916	2860
60°	2723	2713	2651
65°	2453	2424	2368
70°	2095	2064	2012
75°	1656	1619	1581
80°	1176	1145	1110
85°	707	687	667



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.4	3.5
10°-20°	694.1	10.2
20°-30°	1061.1	15.6
30°-40°	1274.2	18.7
40°-50°	1287.7	18.9
50°-60°	1106.4	16.2
60°-70°	754.7	11.1
70°-80°	339.3	5.0
80°-90°	61.0	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°	1995.6	29.3
0°-40°	3269.8	48.0
0°-60°	5663.9	83.1
0°-90°	6819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6819.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2533	2533	2533	2533	2533	
5°	2528	2527	2526	2525	2525	241
15°	2461	2460	2458	2456	2455	695
25°	2311	2310	2305	2297	2295	1064
35°	2050	2050	2043	2030	2027	1280
45°	1677	1682	1675	1663	1656	1293
55°	1246	1250	1243	1232	1219	1112
65°	771	774	761	756	744	763
75°	319	321	311	309	304	345
85°	46	46	44	44	43	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2532.9	2532.9	2532.9	2532.9	2532.9
2.5°	2533.5	2532.9	2532.2	2530.9	2532.9
5°	2527.7	2527.0	2526.3	2525.0	2525.0
7.5°	2518.5	2517.2	2517.2	2515.2	2514.6
10°	2504.1	2503.4	2501.5	2501.5	2500.8
12.5°	2485.8	2484.5	2482.5	2481.9	2480.6
15°	2460.9	2460.3	2457.7	2455.7	2455.0
17.5°	2432.8	2430.8	2428.9	2424.3	2424.3
20°	2398.8	2397.5	2392.9	2388.3	2385.7
22.5°	2359.5	2356.9	2351.7	2347.1	2341.9
25°	2311.1	2310.5	2304.6	2296.7	2294.8
27.5°	2254.9	2256.2	2250.3	2242.4	2238.5
30°	2193.4	2196.0	2187.5	2177.7	2175.7
32.5°	2126.0	2126.7	2119.5	2109.0	2105.1
35°	2049.5	2049.5	2042.9	2030.5	2026.6
37.5°	1964.4	1963.8	1959.8	1945.5	1938.3
40°	1872.2	1875.5	1867.6	1854.5	1851.3
42.5°	1776.7	1780.6	1773.4	1762.3	1755.1
45°	1677.3	1681.8	1674.6	1662.9	1655.7
47.5°	1574.5	1577.8	1572.6	1557.5	1547.7
50°	1467.9	1474.5	1467.3	1451.6	1445.0
52.5°	1358.0	1365.2	1356.7	1344.9	1332.5
55°	1245.5	1250.1	1242.9	1231.8	1219.3
57.5°	1129.7	1138.9	1127.1	1114.0	1103.6
60°	1012.0	1019.8	1008.1	996.3	985.2
62.5°	892.3	897.5	884.4	877.2	864.1
65°	770.6	774.5	761.4	756.2	743.8
67.5°	650.2	653.5	641.1	633.9	626.7
70°	532.5	535.1	524.6	518.1	511.5
72.5°	421.3	421.9	412.1	410.2	402.3
75°	318.6	321.2	311.4	309.4	304.2
77.5°	229.0	229.6	223.1	221.8	217.2
80°	151.8	152.4	147.8	147.2	143.3
82.5°	91.6	92.2	88.3	88.3	85.7
85°	45.8	46.4	44.5	44.5	43.2
87.5°	15.7	16.4	15.7	15.7	15.0
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)