

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: P506848

Luminaire Tested: **24PD-80-PR1-L927**

Issue Date: 3/26/2021

**Test Information**

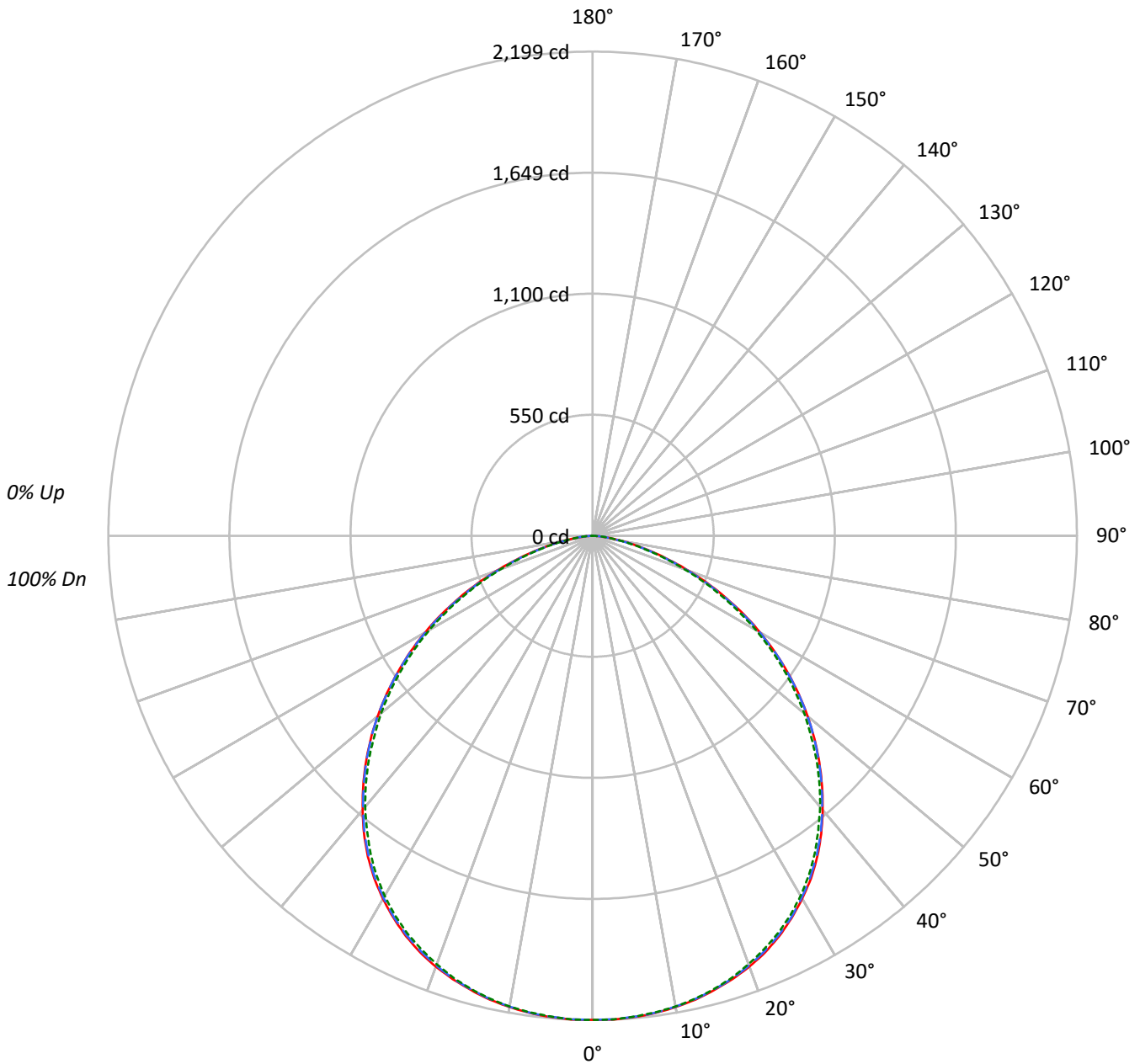
Test Method: LM-79-08  
Report Number: P506848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-80-PR1-L927  
Description: 8000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 90 CRI,  
2700K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5919.0 lumens  
Efficiency: N/A  
Efficacy: 96.7 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): 61.2  
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°	2958	2958	2958
5°	2963	2962	2960
10°	2970	2967	2966
15°	2975	2972	2968
20°	2981	2974	2965
25°	2978	2970	2957
30°	2958	2950	2934
35°	2922	2913	2889
40°	2854	2847	2822
45°	2770	2766	2735
50°	2667	2666	2626
55°	2536	2531	2483
60°	2364	2355	2301
65°	2130	2104	2055
70°	1818	1792	1747
75°	1437	1405	1372
80°	1020	994	964
85°	613	596	579



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.7	3.5
10°-20°	602.5	10.2
20°-30°	921.0	15.6
30°-40°	1106.0	18.7
40°-50°	1117.7	18.9
50°-60°	960.4	16.2
60°-70°	655.1	11.1
70°-80°	294.5	5.0
80°-90°	53.0	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°	1732.2	29.3
0°-40°	2838.2	48.0
0°-60°	4916.4	83.1
0°-90°	5919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5919.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2199	2199	2199	2199	2199	
5°	2194	2194	2193	2192	2192	209
15°	2136	2136	2133	2132	2131	603
25°	2006	2006	2000	1994	1992	924
35°	1779	1779	1773	1762	1759	1111
45°	1456	1460	1454	1443	1437	1122
55°	1081	1085	1079	1069	1058	965
65°	669	672	661	656	646	662
75°	276	279	270	269	264	300
85°	40	40	39	39	38	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2198.6	2198.6	2198.6	2198.6	2198.6
2.5°	2199.2	2198.6	2198.0	2196.9	2198.6
5°	2194.0	2193.5	2192.9	2191.8	2191.8
7.5°	2186.1	2185.0	2185.0	2183.3	2182.7
10°	2173.6	2173.0	2171.3	2171.3	2170.8
12.5°	2157.7	2156.6	2154.9	2154.3	2153.2
15°	2136.1	2135.6	2133.3	2131.6	2131.0
17.5°	2111.7	2110.0	2108.3	2104.3	2104.3
20°	2082.2	2081.0	2077.1	2073.1	2070.8
22.5°	2048.1	2045.8	2041.3	2037.3	2032.8
25°	2006.1	2005.5	2000.4	1993.6	1991.9
27.5°	1957.3	1958.4	1953.3	1946.5	1943.1
30°	1903.9	1906.2	1898.8	1890.3	1888.6
32.5°	1845.4	1846.0	1839.7	1830.6	1827.2
35°	1779.0	1779.0	1773.3	1762.5	1759.1
37.5°	1705.2	1704.6	1701.2	1688.7	1682.4
40°	1625.1	1627.9	1621.1	1609.8	1606.9
42.5°	1542.2	1545.6	1539.3	1529.7	1523.4
45°	1455.9	1459.9	1453.6	1443.4	1437.1
47.5°	1366.7	1369.6	1365.0	1352.0	1343.5
50°	1274.2	1279.9	1273.6	1260.0	1254.3
52.5°	1178.8	1185.0	1177.6	1167.4	1156.6
55°	1081.1	1085.1	1078.9	1069.2	1058.4
57.5°	980.6	988.6	978.3	967.0	957.9
60°	878.4	885.2	875.0	864.8	855.1
62.5°	774.5	779.0	767.7	761.4	750.1
65°	668.9	672.3	660.9	656.4	645.6
67.5°	564.4	567.2	556.5	550.2	544.0
70°	462.2	464.5	455.4	449.7	444.0
72.5°	365.7	366.2	357.7	356.0	349.2
75°	276.5	278.8	270.3	268.6	264.0
77.5°	198.7	199.3	193.6	192.5	188.5
80°	131.7	132.3	128.3	127.8	124.4
82.5°	79.5	80.1	76.7	76.7	74.4
85°	39.7	40.3	38.6	38.6	37.5
87.5°	13.6	14.2	13.6	13.6	13.1
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)