

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: P506709

Luminaire Tested: **24PD-55-PR1-L830**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506709  
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-55-PR1-L830  
Description: 5500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
3000K LEDS  
Light Source: -  
Ballast/Driver: -

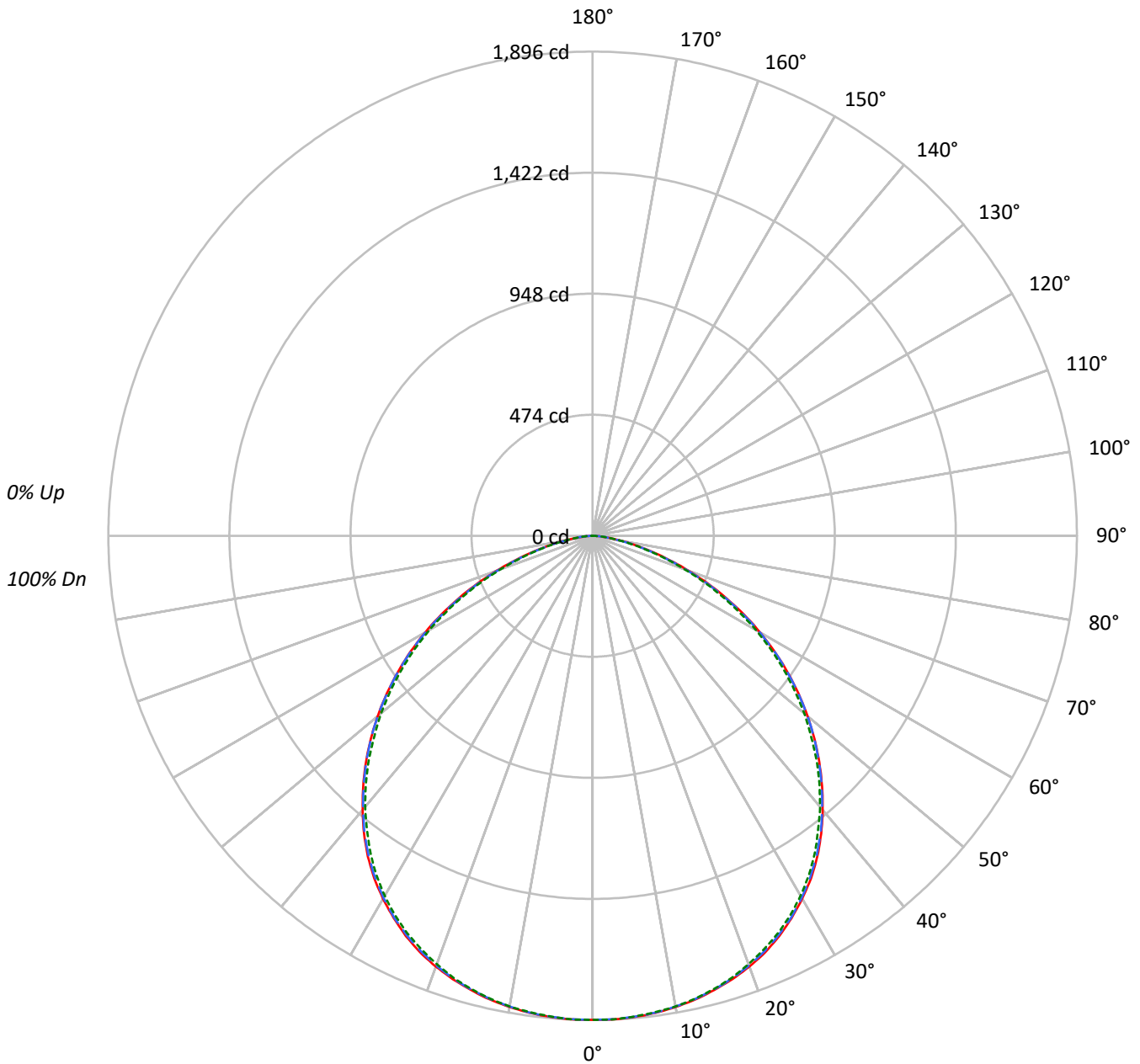
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5103.0 lumens  
Efficiency: N/A  
Efficacy: 123.9 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): 41.2  
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°	2550	2550	2550
5°	2555	2553	2552
10°	2560	2558	2557
15°	2565	2562	2559
20°	2570	2564	2556
25°	2568	2560	2549
30°	2550	2543	2530
35°	2519	2511	2491
40°	2461	2455	2433
45°	2388	2385	2358
50°	2299	2298	2264
55°	2187	2182	2141
60°	2038	2030	1984
65°	1836	1814	1772
70°	1568	1544	1506
75°	1239	1211	1183
80°	880	857	831
85°	530	514	499



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.9	3.5
10°-20°	519.4	10.2
20°-30°	794.1	15.6
30°-40°	953.6	18.7
40°-50°	963.6	18.9
50°-60°	828.0	16.2
60°-70°	564.8	11.1
70°-80°	253.9	5.0
80°-90°	45.7	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°	1493.4	29.3
0°-40°	2446.9	48.0
0°-60°	4238.6	83.1
0°-90°	5103.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5103.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1896	1896	1896	1896	1896	
5°	1892	1891	1891	1890	1890	180
15°	1842	1841	1839	1838	1837	520
25°	1730	1729	1725	1719	1717	796
35°	1534	1534	1529	1520	1517	958
45°	1255	1259	1253	1244	1239	967
55°	932	936	930	922	912	832
65°	577	580	570	566	557	571
75°	238	240	233	232	228	258
85°	34	35	33	33	32	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1895.5	1895.5	1895.5	1895.5	1895.5
2.5°	1896.0	1895.5	1895.0	1894.0	1895.5
5°	1891.6	1891.1	1890.6	1889.6	1889.6
7.5°	1884.7	1883.7	1883.7	1882.3	1881.8
10°	1873.9	1873.5	1872.0	1872.0	1871.5
12.5°	1860.2	1859.3	1857.8	1857.3	1856.3
15°	1841.6	1841.1	1839.2	1837.7	1837.2
17.5°	1820.6	1819.1	1817.6	1814.2	1814.2
20°	1795.1	1794.1	1790.7	1787.3	1785.3
22.5°	1765.8	1763.8	1759.9	1756.5	1752.5
25°	1729.5	1729.0	1724.6	1718.8	1717.3
27.5°	1687.4	1688.4	1684.0	1678.1	1675.2
30°	1641.4	1643.4	1637.0	1629.7	1628.2
32.5°	1591.0	1591.5	1586.1	1578.3	1575.3
35°	1533.7	1533.7	1528.8	1519.5	1516.6
37.5°	1470.1	1469.6	1466.7	1455.9	1450.5
40°	1401.1	1403.5	1397.6	1387.8	1385.4
42.5°	1329.6	1332.5	1327.1	1318.8	1313.4
45°	1255.2	1258.6	1253.2	1244.4	1239.0
47.5°	1178.3	1180.8	1176.8	1165.6	1158.2
50°	1098.5	1103.4	1098.0	1086.3	1081.4
52.5°	1016.3	1021.7	1015.3	1006.5	997.2
55°	932.1	935.5	930.1	921.8	912.5
57.5°	845.4	852.3	843.5	833.7	825.8
60°	757.3	763.2	754.4	745.6	737.2
62.5°	667.7	671.6	661.9	656.5	646.7
65°	576.7	579.6	569.8	565.9	556.6
67.5°	486.6	489.0	479.7	474.4	469.0
70°	398.5	400.4	392.6	387.7	382.8
72.5°	315.3	315.8	308.4	306.9	301.1
75°	238.4	240.4	233.0	231.6	227.6
77.5°	171.3	171.8	166.9	166.0	162.5
80°	113.6	114.1	110.6	110.1	107.2
82.5°	68.5	69.0	66.1	66.1	64.1
85°	34.3	34.8	33.3	33.3	32.3
87.5°	11.7	12.2	11.7	11.7	11.3
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)