

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: P506702

Luminaire Tested: **24PD-55-PL1-L840**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506702  
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-55-PL1-L840  
Description: 5500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

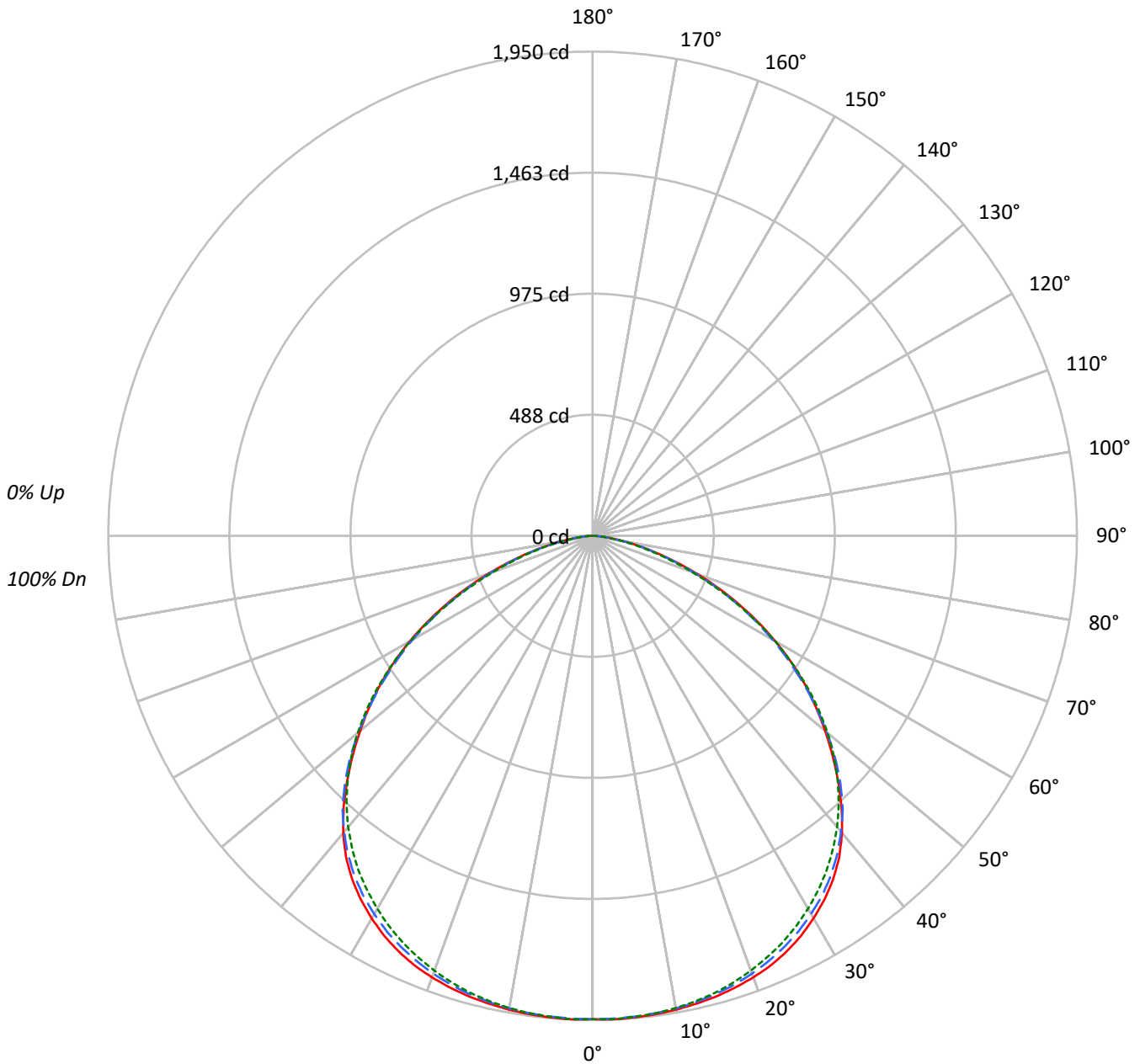
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5585.7 lumens  
Efficiency: N/A  
Efficacy: 135.6 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): 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	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°	2620	2620	2620
5°	2630	2625	2626
10°	2648	2641	2638
15°	2676	2662	2654
20°	2709	2687	2668
25°	2743	2712	2684
30°	2764	2733	2695
35°	2774	2746	2700
40°	2744	2734	2690
45°	2660	2684	2655
50°	2557	2576	2585
55°	2446	2428	2464
60°	2288	2251	2280
65°	2059	2018	2017
70°	1753	1714	1674
75°	1380	1350	1294
80°	987	958	905
85°	585	576	536



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.3	3.3
10°-20°	540.5	9.7
20°-30°	842.5	15.1
30°-40°	1042.5	18.7
40°-50°	1080.7	19.3
50°-60°	930.5	16.7
60°-70°	631.3	11.3
70°-80°	281.7	5.0
80°-90°	50.7	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°	1568.2	28.1
0°-40°	2610.7	46.7
0°-60°	4622.0	82.7
0°-90°	5585.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5585.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1947	1947	1947	1947	1947	
5°	1947	1944	1944	1944	1944	186
15°	1921	1916	1911	1907	1906	543
25°	1847	1840	1827	1813	1808	852
35°	1689	1684	1672	1653	1644	1054
45°	1398	1404	1411	1405	1395	1077
55°	1043	1043	1035	1047	1050	930
65°	647	649	634	627	633	640
75°	266	268	260	254	249	288
85°	38	38	37	37	35	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1947.1	1947.1	1947.1	1947.1	1947.1
2.5°	1949.8	1945.5	1946.1	1946.6	1948.7
5°	1947.1	1944.5	1943.9	1943.9	1944.5
7.5°	1943.9	1940.7	1940.2	1939.7	1939.7
10°	1938.1	1934.9	1932.7	1931.7	1931.1
12.5°	1930.1	1926.3	1923.7	1921.5	1919.9
15°	1921.0	1915.7	1911.4	1907.2	1905.6
17.5°	1908.2	1903.4	1896.0	1889.0	1886.4
20°	1892.2	1887.4	1876.8	1867.2	1863.4
22.5°	1873.6	1866.6	1853.3	1842.6	1837.3
25°	1847.4	1840.5	1826.6	1813.3	1808.0
27.5°	1817.0	1810.6	1795.7	1779.7	1773.3
30°	1779.2	1774.9	1758.9	1741.3	1734.4
32.5°	1737.1	1732.8	1718.9	1699.2	1691.2
35°	1688.6	1683.8	1671.5	1653.4	1643.8
37.5°	1631.0	1629.4	1617.6	1599.0	1589.9
40°	1562.2	1565.4	1556.3	1540.3	1531.3
42.5°	1483.8	1490.7	1490.7	1475.8	1466.8
45°	1398.0	1404.4	1410.8	1405.4	1395.3
47.5°	1310.0	1316.9	1324.4	1326.5	1318.0
50°	1221.5	1225.8	1230.6	1240.2	1234.8
52.5°	1133.5	1135.1	1133.5	1146.3	1145.3
55°	1042.9	1043.4	1034.9	1046.6	1050.3
57.5°	948.5	950.1	936.2	942.6	950.6
60°	850.4	852.0	836.5	837.6	847.2
62.5°	749.1	751.2	735.8	732.0	740.6
65°	646.7	649.4	633.9	627.0	633.4
67.5°	544.9	548.1	533.7	525.2	526.8
70°	445.7	448.4	435.6	427.6	425.5
72.5°	351.4	354.0	343.9	335.9	332.2
75°	265.5	267.7	259.7	253.8	249.0
77.5°	190.9	192.5	186.1	181.8	177.0
80°	127.4	128.0	123.7	121.0	116.8
82.5°	76.2	76.8	74.1	73.0	69.8
85°	37.9	38.4	37.3	37.3	34.7
87.5°	13.3	12.8	13.3	13.3	11.7
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)