

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: P506704

Luminaire Tested: **24PD-55-PL1-L927**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506704  
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-L927  
Description: 5500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,  
2700K LEDS  
Light Source: -  
Ballast/Driver: -

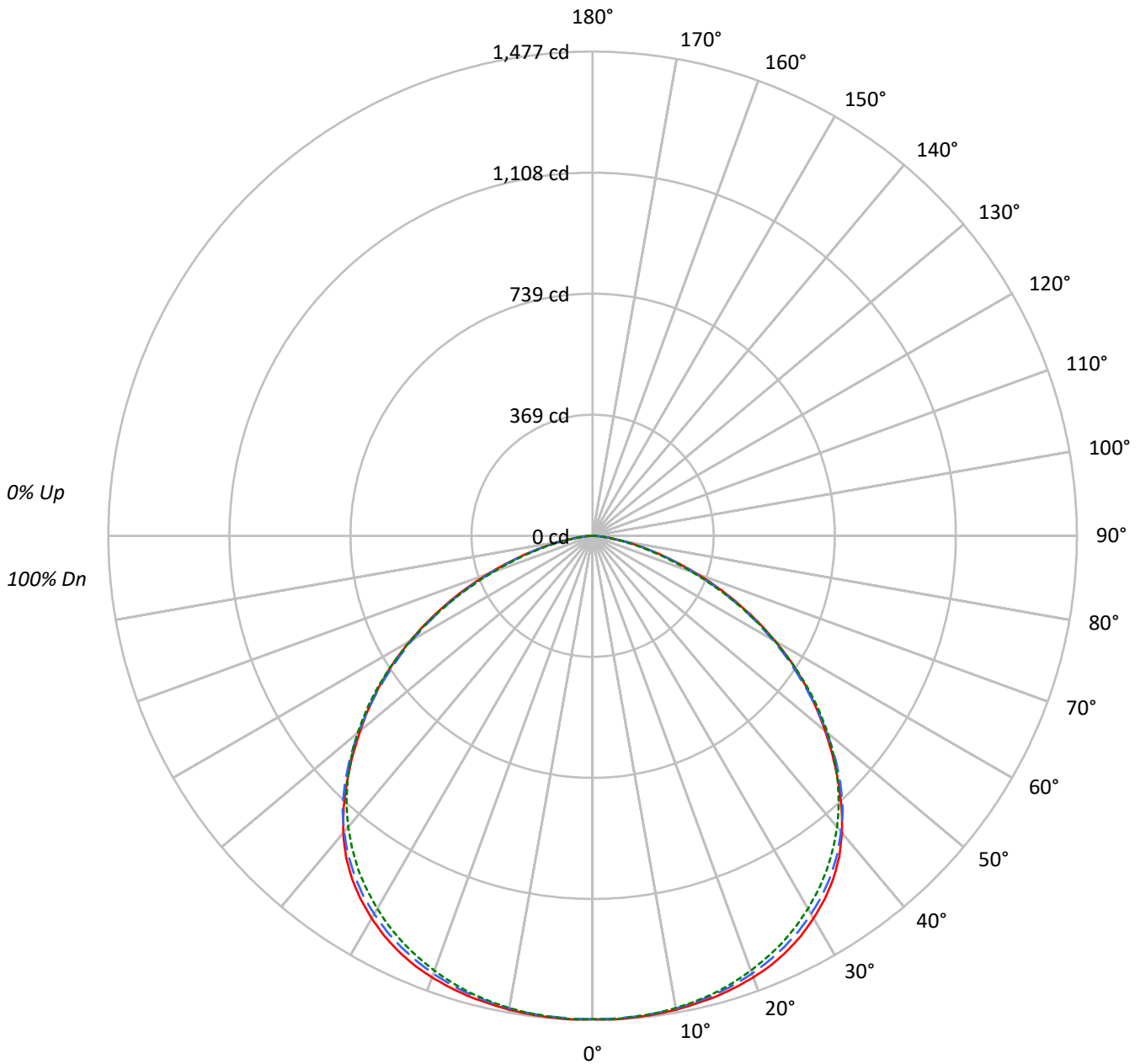
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4230.7 lumens  
Efficiency: N/A  
Efficacy: 102.7 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°	1984	1984	1984
5°	1992	1989	1989
10°	2006	2000	1998
15°	2027	2017	2010
20°	2052	2035	2021
25°	2077	2054	2033
30°	2094	2070	2041
35°	2101	2079	2045
40°	2078	2070	2037
45°	2015	2033	2011
50°	1937	1951	1958
55°	1853	1839	1866
60°	1733	1705	1727
65°	1559	1528	1527
70°	1328	1298	1268
75°	1045	1023	980
80°	748	726	685
85°	443	437	404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.3	3.3
10°-20°	409.3	9.7
20°-30°	638.1	15.1
30°-40°	789.6	18.7
40°-50°	818.6	19.3
50°-60°	704.8	16.7
60°-70°	478.2	11.3
70°-80°	213.4	5.0
80°-90°	38.4	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°	1187.8	28.1
0°-40°	1977.4	46.7
0°-60°	3500.7	82.7
0°-90°	4230.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4230.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1475	1475	1475	1475	1475	
5°	1475	1473	1472	1472	1473	141
15°	1455	1451	1448	1444	1443	411
25°	1399	1394	1384	1373	1369	645
35°	1279	1275	1266	1252	1245	798
45°	1059	1064	1068	1064	1057	816
55°	790	790	784	793	796	704
65°	490	492	480	475	480	485
75°	201	203	197	192	189	218
85°	29	29	28	28	26	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1474.8	1474.8	1474.8	1474.8	1474.8
2.5°	1476.8	1473.6	1474.0	1474.4	1476.0
5°	1474.8	1472.7	1472.3	1472.3	1472.7
7.5°	1472.3	1469.9	1469.5	1469.1	1469.1
10°	1467.9	1465.5	1463.9	1463.1	1462.7
12.5°	1461.8	1459.0	1457.0	1455.4	1454.2
15°	1455.0	1450.9	1447.7	1444.5	1443.3
17.5°	1445.3	1441.7	1436.0	1430.8	1428.7
20°	1433.2	1429.5	1421.5	1414.2	1411.4
22.5°	1419.0	1413.8	1403.7	1395.6	1391.6
25°	1399.3	1394.0	1383.5	1373.4	1369.4
27.5°	1376.2	1371.4	1360.1	1348.0	1343.1
30°	1347.6	1344.3	1332.2	1318.9	1313.6
32.5°	1315.7	1312.4	1301.9	1287.0	1280.9
35°	1278.9	1275.3	1266.0	1252.3	1245.0
37.5°	1235.3	1234.1	1225.2	1211.1	1204.2
40°	1183.2	1185.6	1178.8	1166.6	1159.8
42.5°	1123.8	1129.1	1129.1	1117.8	1110.9
45°	1058.8	1063.7	1068.5	1064.5	1056.8
47.5°	992.2	997.4	1003.1	1004.7	998.3
50°	925.2	928.4	932.0	939.3	935.3
52.5°	858.5	859.7	858.5	868.2	867.4
55°	789.9	790.3	783.8	792.7	795.5
57.5°	718.4	719.6	709.1	714.0	720.0
60°	644.1	645.3	633.6	634.4	641.7
62.5°	567.4	569.0	557.3	554.5	560.9
65°	489.8	491.9	480.1	474.9	479.7
67.5°	412.7	415.1	404.2	397.8	399.0
70°	337.6	339.6	329.9	323.9	322.3
72.5°	266.1	268.1	260.5	254.4	251.6
75°	201.1	202.7	196.7	192.2	188.6
77.5°	144.6	145.8	140.9	137.7	134.1
80°	96.5	96.9	93.7	91.7	88.4
82.5°	57.7	58.2	56.1	55.3	52.9
85°	28.7	29.1	28.3	28.3	26.2
87.5°	10.1	9.7	10.1	10.1	8.9
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)