

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: P506722

Luminaire Tested: **24PD-55-PW1-L927**

Issue Date: 3/26/2021



**Test Information**

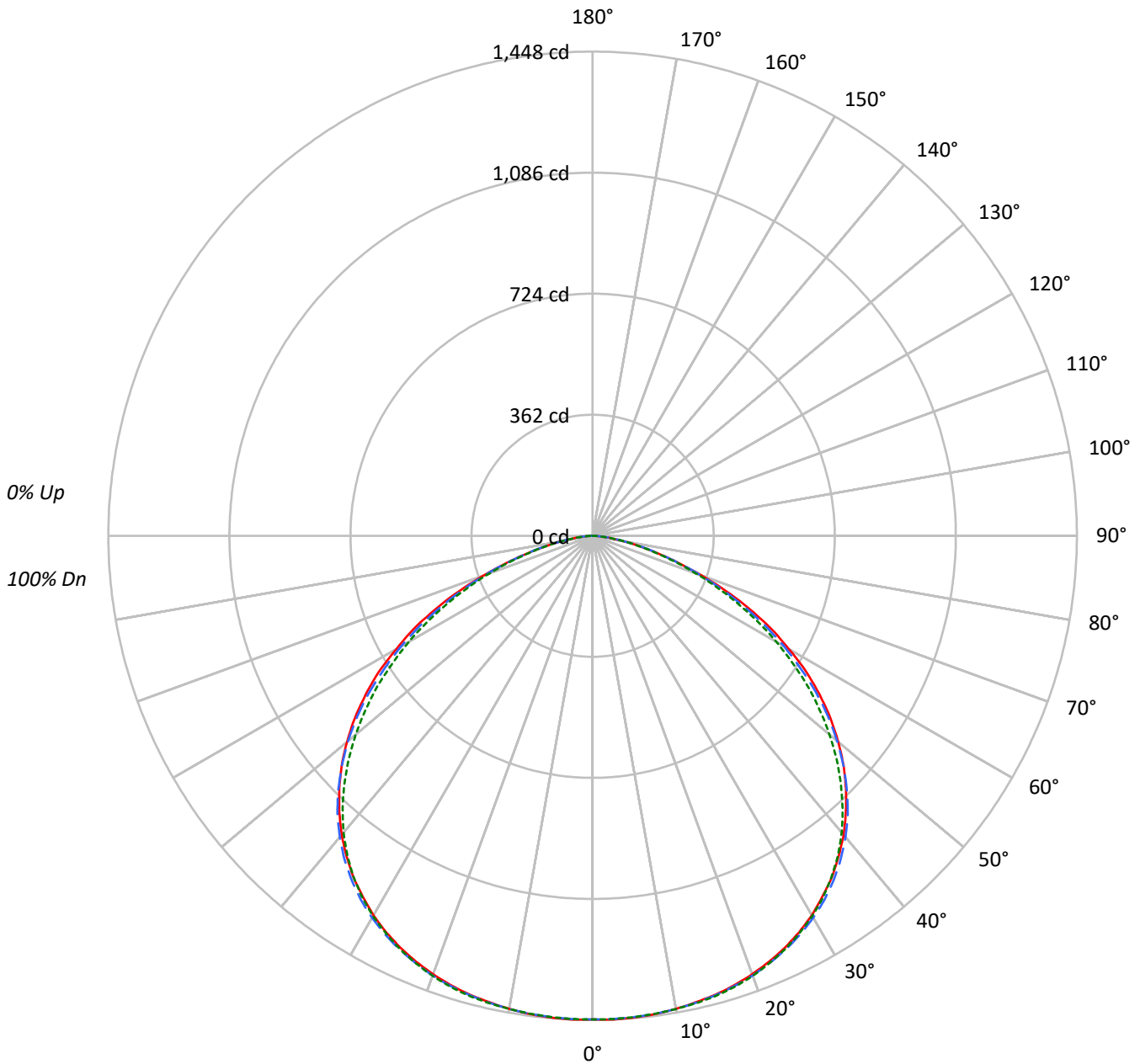
Test Method: LM-79-08  
Report Number: P506722  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-55-PW1-L927  
Description: 5500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 90 CRI,  
2700K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4242.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.45  
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	98	95	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71																			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60																			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52																			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

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

	0°	45°	90°
0°	1946	1946	1946
5°	1953	1951	1951
10°	1963	1963	1964
15°	1979	1981	1985
20°	1998	2004	2005
25°	2019	2028	2025
30°	2037	2050	2040
35°	2048	2064	2046
40°	2051	2066	2035
45°	2039	2046	1997
50°	2007	1998	1935
55°	1943	1912	1844
60°	1824	1778	1708
65°	1646	1585	1521
70°	1357	1336	1287
75°	1037	1048	1005
80°	720	742	726
85°	431	449	437



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.7	3.2
10°-20°	402.1	9.5
20°-30°	628.9	14.8
30°-40°	782.3	18.4
40°-50°	822.1	19.4
50°-60°	721.6	17.0
60°-70°	491.4	11.6
70°-80°	216.8	5.1
80°-90°	39.0	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°	1168.7	27.6
0°-40°	1951.0	46.0
0°-60°	3494.8	82.4
0°-90°	4242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4242.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1446	1446	1444	1443	1444	138
15°	1421	1422	1422	1422	1425	402
25°	1360	1363	1366	1365	1364	627
35°	1247	1253	1257	1251	1246	779
45°	1071	1078	1075	1058	1050	825
55°	828	825	815	794	786	738
65°	517	504	498	487	478	510
75°	200	201	202	198	193	218
85°	28	29	29	29	28	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1446.5	1446.5	1446.5	1446.5	1446.5
2.5°	1448.2	1447.3	1446.5	1445.3	1446.5
5°	1446.1	1445.7	1444.5	1442.9	1444.5
7.5°	1442.9	1442.9	1441.7	1440.5	1441.3
10°	1436.8	1438.1	1436.8	1435.6	1437.2
12.5°	1428.8	1430.8	1430.4	1430.4	1431.6
15°	1420.7	1422.3	1421.9	1421.9	1424.7
17.5°	1409.4	1411.4	1411.8	1412.6	1414.2
20°	1395.2	1398.1	1399.7	1399.3	1400.5
22.5°	1378.7	1381.9	1383.1	1383.9	1383.1
25°	1359.7	1363.3	1365.8	1365.0	1363.7
27.5°	1336.7	1340.7	1344.0	1341.9	1339.5
30°	1310.8	1314.5	1319.3	1315.7	1313.3
32.5°	1278.9	1285.8	1290.3	1285.8	1282.2
35°	1247.0	1252.7	1256.7	1250.7	1245.8
37.5°	1208.3	1215.1	1218.8	1210.3	1205.0
40°	1167.5	1174.4	1176.4	1165.5	1158.6
42.5°	1121.0	1128.7	1129.5	1114.2	1106.5
45°	1071.4	1078.2	1075.4	1057.6	1049.6
47.5°	1017.7	1022.5	1016.5	998.3	989.4
50°	958.7	961.5	954.3	932.9	924.4
52.5°	896.5	896.1	886.8	865.4	856.1
55°	828.3	825.0	814.9	793.5	785.9
57.5°	758.4	748.3	737.4	719.2	709.1
60°	678.0	670.4	660.7	642.5	634.8
62.5°	602.1	588.4	580.3	564.2	557.3
65°	516.9	504.4	497.9	487.0	477.7
67.5°	431.3	421.6	417.2	409.5	401.0
70°	344.9	342.0	339.6	332.4	327.1
72.5°	268.6	267.7	267.3	263.3	258.1
75°	199.5	200.7	201.5	197.9	193.4
77.5°	142.1	144.2	143.8	141.7	140.5
80°	92.9	94.5	95.7	93.7	93.7
82.5°	56.1	57.7	57.3	58.2	56.5
85°	27.9	29.1	29.1	28.7	28.3
87.5°	10.1	10.5	10.1	10.5	10.1
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)