

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: P506673

Luminaire Tested: **24PD-50-PL1-L830**

Issue Date: 3/26/2021



**Test Information**

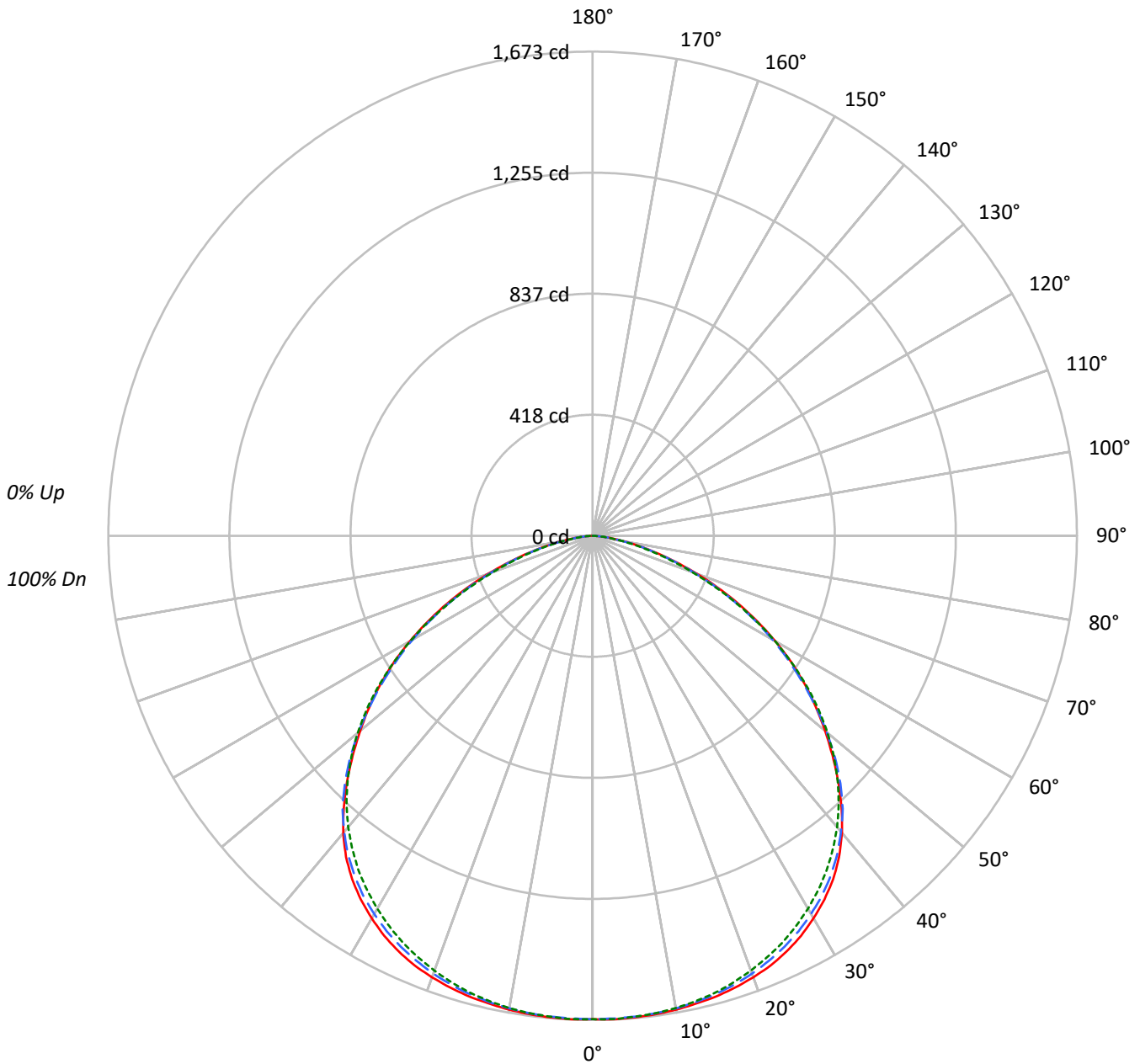
Test Method: LM-79-08  
Report Number: P506673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-50-PL1-L830  
Description: 5000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,  
3000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4791.9 lumens  
Efficiency: N/A  
Efficacy: 129.2 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): 37.1  
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°	2248	2248	2248
5°	2256	2252	2253
10°	2272	2265	2263
15°	2296	2284	2277
20°	2324	2305	2289
25°	2353	2326	2303
30°	2371	2344	2312
35°	2379	2355	2316
40°	2354	2345	2307
45°	2282	2303	2278
50°	2193	2210	2217
55°	2099	2083	2114
60°	1963	1931	1956
65°	1766	1731	1730
70°	1504	1470	1436
75°	1184	1158	1110
80°	847	822	776
85°	502	494	459



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.0	3.3
10°-20°	463.7	9.7
20°-30°	722.8	15.1
30°-40°	894.4	18.7
40°-50°	927.2	19.3
50°-60°	798.3	16.7
60°-70°	541.6	11.3
70°-80°	241.7	5.0
80°-90°	43.5	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°	1345.4	28.1
0°-40°	2239.7	46.7
0°-60°	3965.2	82.7
0°-90°	4791.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4791.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1670	1668	1668	1668	1668	159
15°	1648	1643	1640	1636	1635	466
25°	1585	1579	1567	1556	1551	731
35°	1449	1444	1434	1418	1410	904
45°	1199	1205	1210	1206	1197	924
55°	895	895	888	898	901	798
65°	555	557	544	538	543	549
75°	228	230	223	218	214	247
85°	32	33	32	32	30	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1670.4	1670.4	1670.4	1670.4	1670.4
2.5°	1672.7	1669.1	1669.5	1670.0	1671.8
5°	1670.4	1668.1	1667.7	1667.7	1668.1
7.5°	1667.7	1664.9	1664.5	1664.0	1664.0
10°	1662.6	1659.9	1658.1	1657.2	1656.7
12.5°	1655.8	1652.6	1650.3	1648.5	1647.1
15°	1648.0	1643.4	1639.8	1636.1	1634.7
17.5°	1637.0	1632.9	1626.5	1620.6	1618.3
20°	1623.3	1619.2	1610.0	1601.8	1598.6
22.5°	1607.3	1601.4	1589.9	1580.8	1576.2
25°	1584.9	1578.9	1567.1	1555.6	1551.0
27.5°	1558.8	1553.3	1540.5	1526.8	1521.3
30°	1526.3	1522.7	1509.0	1493.9	1487.9
32.5°	1490.2	1486.6	1474.7	1457.7	1450.9
35°	1448.6	1444.5	1433.9	1418.4	1410.2
37.5°	1399.2	1397.8	1387.8	1371.7	1364.0
40°	1340.2	1342.9	1335.2	1321.4	1313.7
42.5°	1272.9	1278.9	1278.9	1266.1	1258.3
45°	1199.3	1204.8	1210.3	1205.7	1197.0
47.5°	1123.8	1129.8	1136.2	1138.0	1130.7
50°	1047.9	1051.6	1055.7	1063.9	1059.3
52.5°	972.4	973.8	972.4	983.4	982.5
55°	894.7	895.1	887.8	897.9	901.1
57.5°	813.7	815.1	803.2	808.7	815.5
60°	729.6	730.9	717.7	718.6	726.8
62.5°	642.6	644.5	631.2	628.0	635.3
65°	554.8	557.1	543.8	537.9	543.4
67.5°	467.5	470.2	457.9	450.5	451.9
70°	382.4	384.7	373.7	366.8	365.0
72.5°	301.4	303.7	295.0	288.2	285.0
75°	227.8	229.6	222.8	217.7	213.6
77.5°	163.7	165.1	159.6	156.0	151.9
80°	109.3	109.8	106.1	103.8	100.2
82.5°	65.4	65.9	63.6	62.7	59.9
85°	32.5	32.9	32.0	32.0	29.7
87.5°	11.4	11.0	11.4	11.4	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)