

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: P506691

Luminaire Tested: **24PD-50-PW1-L830**

Issue Date: 3/26/2021



**Test Information**

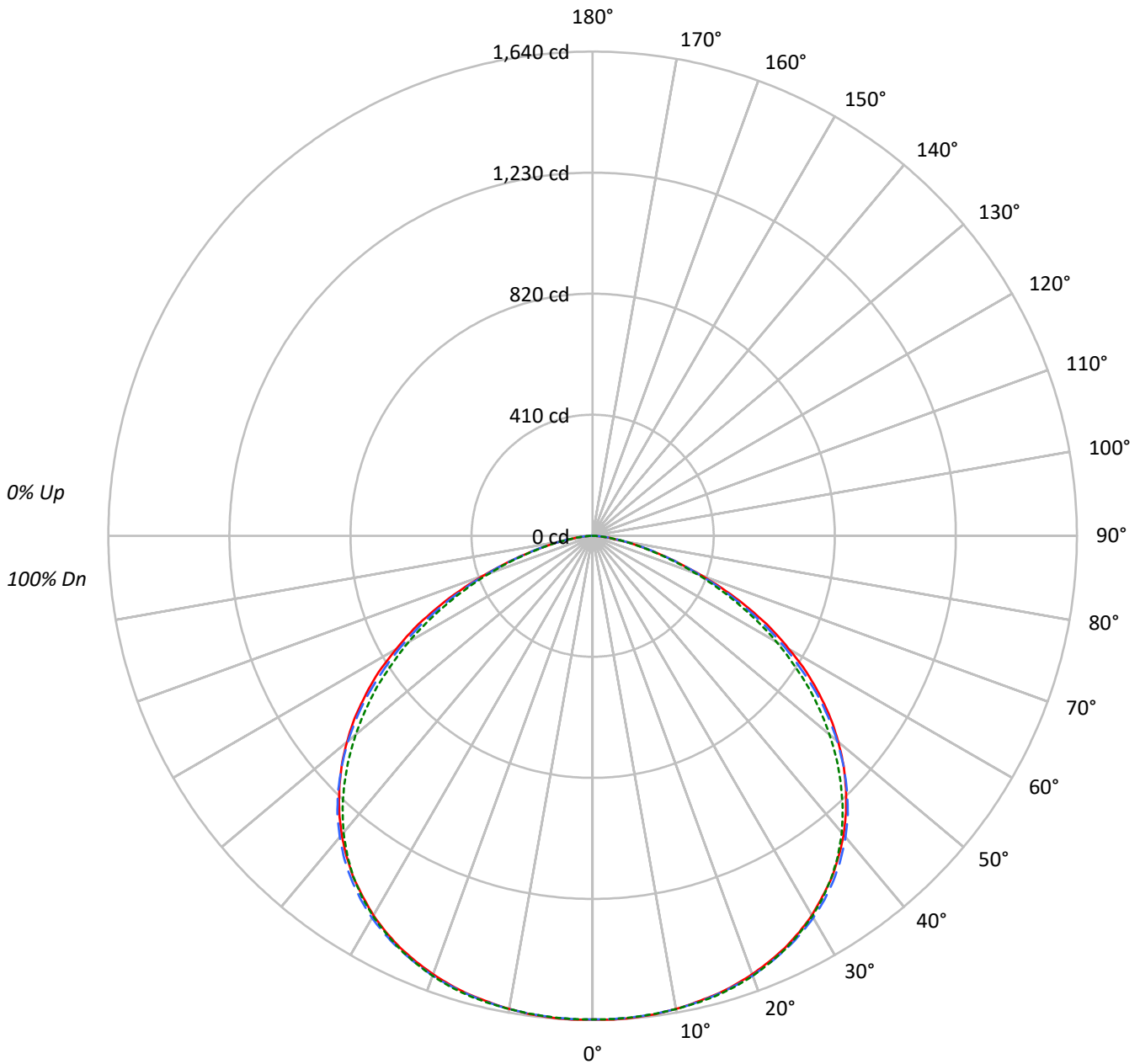
Test Method: LM-79-08  
Report Number: P506691  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-50-PW1-L830  
Description: 5000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,  
3000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4804.7 lumens  
Efficiency: N/A  
Efficacy: 129.5 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): 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

TEST NUMBER: P506691  
CATALOG NUMBER: 24PD-50-PW1-L830

### Luminous Intensity Polar Plot





TEST NUMBER: P506691

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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°	2204	2204	2204
5°	2212	2210	2210
10°	2224	2224	2224
15°	2242	2243	2248
20°	2263	2270	2271
25°	2286	2297	2293
30°	2307	2322	2311
35°	2320	2338	2318
40°	2323	2340	2305
45°	2309	2318	2262
50°	2273	2263	2192
55°	2201	2165	2088
60°	2067	2014	1935
65°	1864	1796	1723
70°	1537	1513	1458
75°	1175	1186	1139
80°	815	840	822
85°	488	508	494



TEST NUMBER: P506691

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.9	3.2
10°-20°	455.5	9.5
20°-30°	712.4	14.8
30°-40°	886.1	18.4
40°-50°	931.2	19.4
50°-60°	817.4	17.0
60°-70°	556.6	11.6
70°-80°	245.5	5.1
80°-90°	44.2	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°	1323.8	27.6
0°-40°	2209.9	46.0
0°-60°	3958.4	82.4
0°-90°	4804.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4804.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1638	1638	1638	1638	1638	
5°	1638	1638	1636	1634	1636	156
15°	1609	1611	1610	1610	1614	455
25°	1540	1544	1547	1546	1545	710
35°	1412	1419	1424	1417	1411	883
45°	1214	1221	1218	1198	1189	935
55°	938	934	923	899	890	836
65°	586	571	564	552	541	577
75°	226	227	228	224	219	247
85°	32	33	33	32	32	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1638.4	1638.4	1638.4	1638.4	1638.4
2.5°	1640.3	1639.4	1638.4	1637.1	1638.4
5°	1638.0	1637.5	1636.2	1634.3	1636.2
7.5°	1634.3	1634.3	1633.0	1631.6	1632.5
10°	1627.5	1628.8	1627.5	1626.1	1627.9
12.5°	1618.3	1620.6	1620.2	1620.2	1621.5
15°	1609.2	1611.0	1610.5	1610.5	1613.7
17.5°	1596.4	1598.7	1599.1	1600.0	1601.9
20°	1580.4	1583.6	1585.4	1584.9	1586.3
22.5°	1561.6	1565.3	1566.6	1567.5	1566.6
25°	1540.1	1544.2	1547.0	1546.1	1544.7
27.5°	1514.0	1518.6	1522.3	1520.0	1517.2
30°	1484.8	1488.9	1494.4	1490.2	1487.5
32.5°	1448.6	1456.4	1461.4	1456.4	1452.3
35°	1412.5	1418.9	1423.5	1416.6	1411.1
37.5°	1368.6	1376.4	1380.5	1370.9	1364.9
40°	1322.4	1330.2	1332.4	1320.1	1312.3
42.5°	1269.8	1278.5	1279.4	1262.0	1253.3
45°	1213.5	1221.3	1218.1	1198.0	1188.8
47.5°	1152.7	1158.2	1151.3	1130.7	1120.7
50°	1085.9	1089.1	1080.9	1056.6	1047.0
52.5°	1015.5	1015.0	1004.5	980.2	969.7
55°	938.2	934.5	923.1	898.8	890.1
57.5°	859.0	847.6	835.2	814.6	803.2
60°	768.0	759.3	748.3	727.7	719.1
62.5°	682.0	666.4	657.3	639.0	631.2
65°	585.5	571.3	564.0	551.6	541.1
67.5°	488.5	477.5	472.5	463.8	454.2
70°	390.6	387.4	384.7	376.4	370.5
72.5°	304.2	303.3	302.8	298.2	292.3
75°	226.0	227.3	228.2	224.1	219.1
77.5°	161.0	163.3	162.8	160.6	159.2
80°	105.2	107.0	108.4	106.1	106.1
82.5°	63.6	65.4	65.0	65.9	64.0
85°	31.6	32.9	32.9	32.5	32.0
87.5°	11.4	11.9	11.4	11.9	11.4
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)