

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: P506682

Luminaire Tested: **24PD-50-PR1-L830**

Issue Date: 3/26/2021



**Test Information**

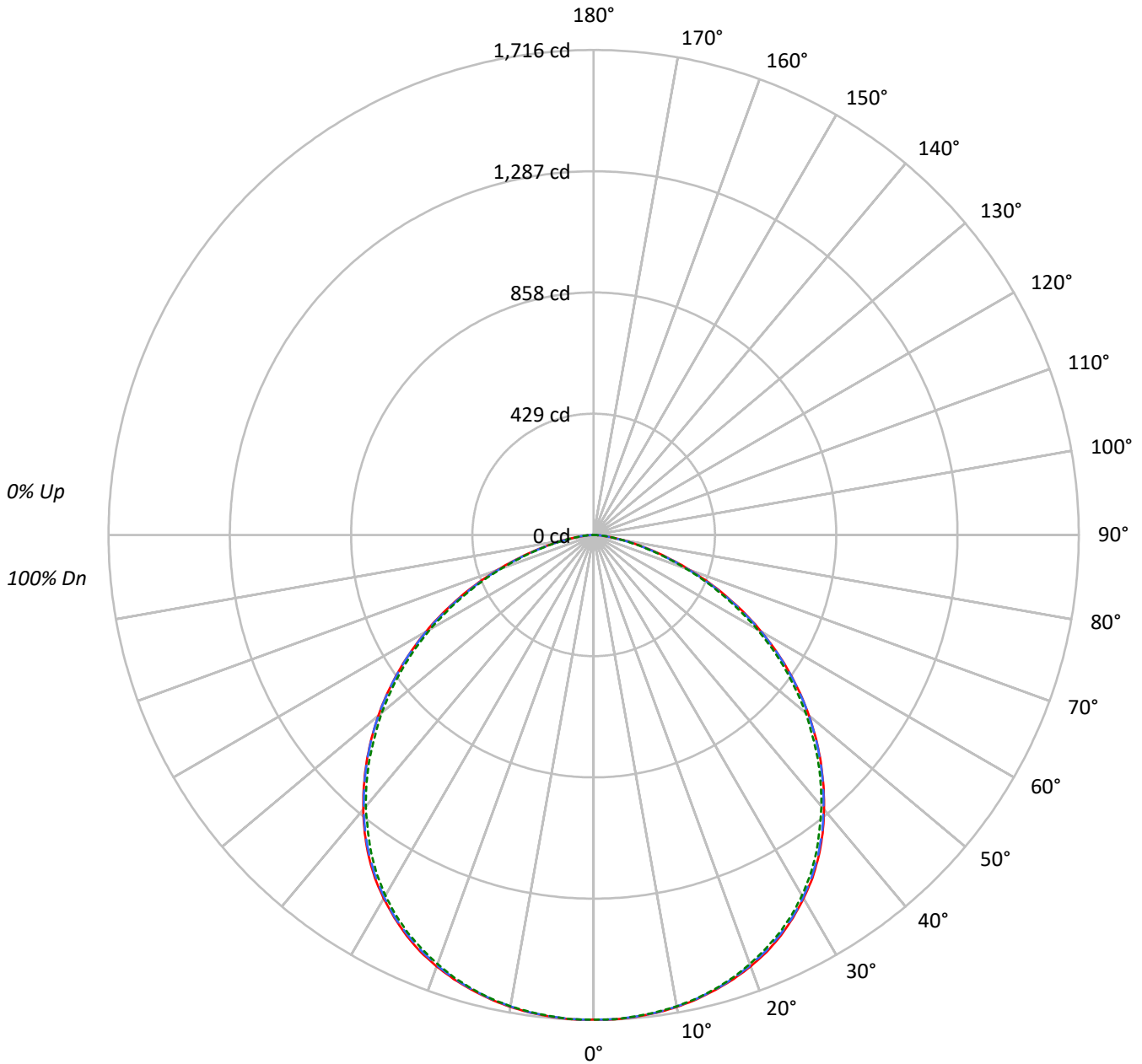
Test Method: LM-79-08  
Report Number: P506682  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-50-PR1-L830  
Description: 5000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
3000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4618.0 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72																			
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61																			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52																			
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46																			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40																			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35																			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32																			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28																			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26																			

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

	0°	45°	90°
0°	2308	2308	2308
5°	2312	2311	2310
10°	2317	2315	2314
15°	2321	2318	2316
20°	2326	2320	2313
25°	2324	2317	2307
30°	2308	2302	2289
35°	2280	2272	2254
40°	2227	2222	2202
45°	2161	2158	2134
50°	2081	2080	2048
55°	1979	1974	1937
60°	1844	1837	1795
65°	1662	1642	1604
70°	1419	1398	1363
75°	1121	1096	1071
80°	797	776	752
85°	479	465	451



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.8	3.5
10°-20°	470.1	10.2
20°-30°	718.6	15.6
30°-40°	862.9	18.7
40°-50°	872.1	18.9
50°-60°	749.3	16.2
60°-70°	511.1	11.1
70°-80°	229.8	5.0
80°-90°	41.3	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°	1351.4	29.3
0°-40°	2214.4	48.0
0°-60°	3835.7	83.1
0°-90°	4618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4618.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1712	1711	1711	1710	1710	163
15°	1667	1666	1664	1663	1663	471
25°	1565	1565	1561	1555	1554	721
35°	1388	1388	1384	1375	1372	867
45°	1136	1139	1134	1126	1121	875
55°	844	847	842	834	826	753
65°	522	524	516	512	504	516
75°	216	218	211	210	206	234
85°	31	32	30	30	29	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1715.3	1715.3	1715.3	1715.3	1715.3
2.5°	1715.8	1715.3	1714.9	1714.0	1715.3
5°	1711.8	1711.3	1710.9	1710.0	1710.0
7.5°	1705.6	1704.7	1704.7	1703.4	1702.9
10°	1695.8	1695.4	1694.1	1694.1	1693.6
12.5°	1683.4	1682.6	1681.2	1680.8	1679.9
15°	1666.6	1666.2	1664.4	1663.1	1662.6
17.5°	1647.6	1646.2	1644.9	1641.8	1641.8
20°	1624.5	1623.6	1620.5	1617.4	1615.7
22.5°	1597.9	1596.2	1592.6	1589.5	1586.0
25°	1565.2	1564.7	1560.7	1555.4	1554.1
27.5°	1527.1	1527.9	1524.0	1518.6	1516.0
30°	1485.4	1487.2	1481.4	1474.8	1473.4
32.5°	1439.8	1440.2	1435.4	1428.3	1425.6
35°	1387.9	1387.9	1383.5	1375.1	1372.4
37.5°	1330.4	1329.9	1327.3	1317.5	1312.6
40°	1267.9	1270.1	1264.8	1255.9	1253.7
42.5°	1203.2	1205.9	1201.0	1193.5	1188.6
45°	1135.9	1139.0	1134.1	1126.1	1121.3
47.5°	1066.3	1068.5	1065.0	1054.8	1048.2
50°	994.1	998.5	993.7	983.0	978.6
52.5°	919.7	924.6	918.8	910.8	902.4
55°	843.5	846.6	841.7	834.2	825.8
57.5°	765.1	771.3	763.3	754.4	747.4
60°	685.3	690.7	682.7	674.7	667.2
62.5°	604.3	607.8	598.9	594.1	585.2
65°	521.9	524.5	515.7	512.1	503.7
67.5°	440.4	442.6	434.1	429.3	424.4
70°	360.6	362.4	355.3	350.9	346.4
72.5°	285.3	285.7	279.1	277.8	272.5
75°	215.7	217.5	210.9	209.5	206.0
77.5°	155.1	155.5	151.1	150.2	147.1
80°	102.8	103.2	100.1	99.7	97.0
82.5°	62.0	62.5	59.8	59.8	58.0
85°	31.0	31.5	30.1	30.1	29.2
87.5°	10.6	11.1	10.6	10.6	10.2
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)