

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: P506844

Luminaire Tested: **24PD-80-PR1-L830**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506844  
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-80-PR1-L830  
Description: 8000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
3000K LEDS  
Light Source: -  
Ballast/Driver: -

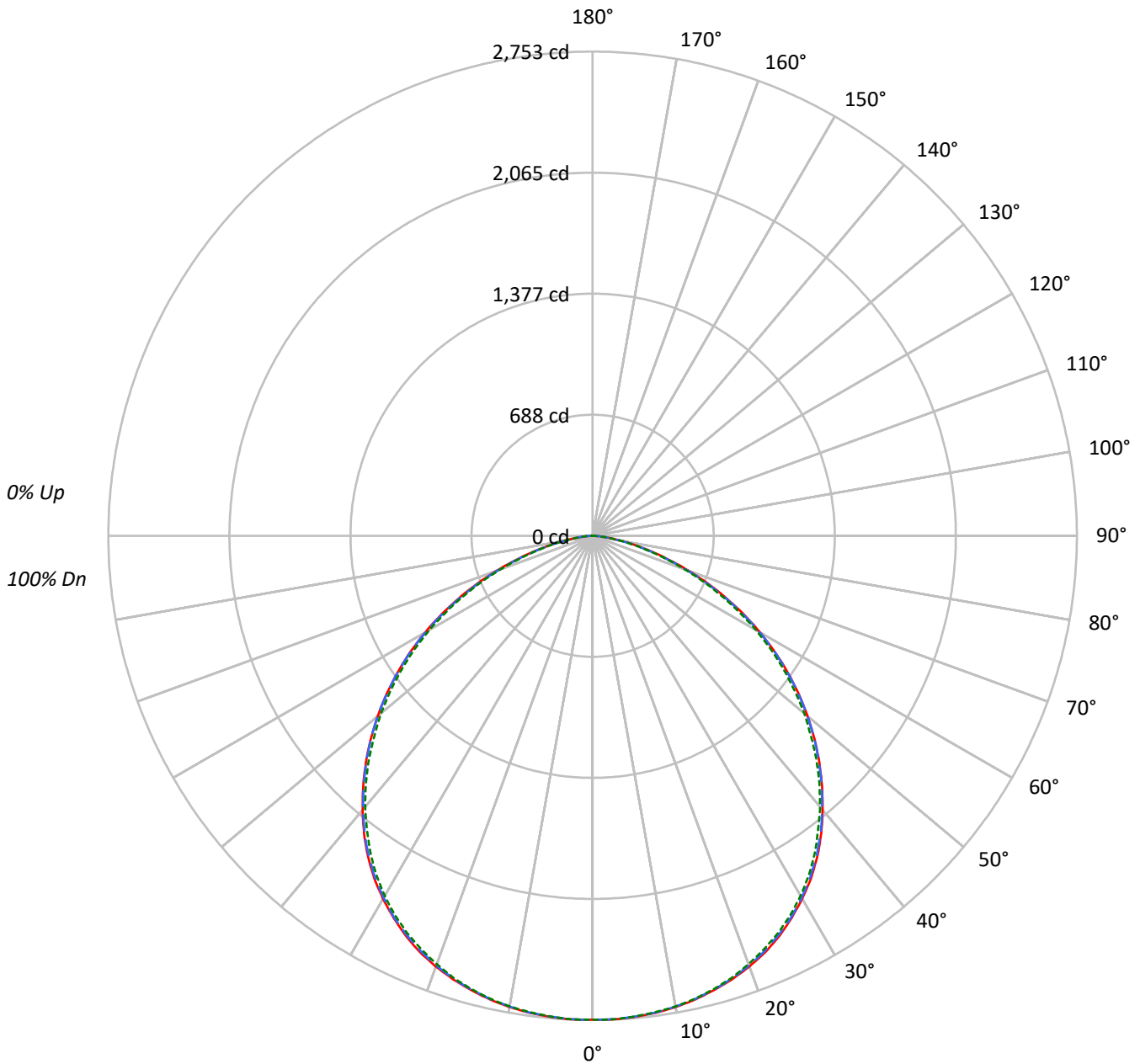
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7409.0 lumens  
Efficiency: N/A  
Efficacy: 121.1 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): 61.2  
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	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°	3703	3703	3703
5°	3709	3707	3705
10°	3717	3713	3712
15°	3725	3720	3716
20°	3732	3723	3711
25°	3728	3717	3702
30°	3703	3693	3673
35°	3658	3646	3617
40°	3573	3564	3533
45°	3468	3462	3423
50°	3338	3337	3287
55°	3175	3168	3108
60°	2959	2947	2880
65°	2666	2634	2573
70°	2276	2242	2186
75°	1799	1759	1718
80°	1278	1244	1206
85°	769	746	724



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.2	3.5
10°-20°	754.1	10.2
20°-30°	1152.9	15.6
30°-40°	1384.5	18.7
40°-50°	1399.1	18.9
50°-60°	1202.2	16.2
60°-70°	820.0	11.1
70°-80°	368.7	5.0
80°-90°	66.3	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°	2168.2	29.3
0°-40°	3552.7	48.0
0°-60°	6153.9	83.1
0°-90°	7409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7409.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2752	2752	2752	2752	2752	
5°	2746	2746	2745	2744	2744	261
15°	2674	2673	2670	2668	2668	755
25°	2511	2510	2504	2496	2493	1156
35°	2227	2227	2220	2206	2202	1390
45°	1822	1827	1820	1807	1799	1404
55°	1353	1358	1350	1338	1325	1208
65°	837	842	827	822	808	829
75°	346	349	338	336	330	375
85°	50	50	48	48	47	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2752.0	2752.0	2752.0	2752.0	2752.0
2.5°	2752.7	2752.0	2751.3	2749.9	2752.0
5°	2746.3	2745.6	2744.9	2743.5	2743.5
7.5°	2736.4	2735.0	2735.0	2732.8	2732.1
10°	2720.8	2720.1	2717.9	2717.9	2717.2
12.5°	2700.9	2699.4	2697.3	2696.6	2695.2
15°	2673.9	2673.1	2670.3	2668.2	2667.5
17.5°	2643.3	2641.2	2639.0	2634.1	2634.1
20°	2606.3	2604.9	2599.9	2595.0	2592.1
22.5°	2563.7	2560.8	2555.2	2550.2	2544.5
25°	2511.1	2510.4	2504.0	2495.5	2493.3
27.5°	2450.0	2451.4	2445.0	2436.5	2432.2
30°	2383.2	2386.0	2376.8	2366.1	2364.0
32.5°	2309.9	2310.7	2302.8	2291.5	2287.2
35°	2226.8	2226.8	2219.7	2206.2	2201.9
37.5°	2134.4	2133.7	2129.4	2113.8	2106.0
40°	2034.2	2037.7	2029.2	2015.0	2011.4
42.5°	1930.4	1934.7	1926.9	1914.8	1907.0
45°	1822.4	1827.3	1819.5	1806.7	1798.9
47.5°	1710.8	1714.3	1708.7	1692.3	1681.6
50°	1594.9	1602.0	1594.2	1577.2	1570.1
52.5°	1475.5	1483.3	1474.1	1461.3	1447.8
55°	1353.3	1358.2	1350.4	1338.3	1324.8
57.5°	1227.5	1237.4	1224.6	1210.4	1199.0
60°	1099.5	1108.1	1095.3	1082.5	1070.4
62.5°	969.5	975.2	960.9	953.1	938.9
65°	837.3	841.5	827.3	821.6	808.1
67.5°	706.5	710.0	696.5	688.7	680.9
70°	578.6	581.4	570.0	562.9	555.8
72.5°	457.7	458.4	447.8	445.6	437.1
75°	346.1	349.0	338.3	336.2	330.5
77.5°	248.8	249.5	242.4	240.9	236.0
80°	164.9	165.6	160.6	159.9	155.7
82.5°	99.5	100.2	96.0	96.0	93.1
85°	49.8	50.5	48.3	48.3	46.9
87.5°	17.1	17.8	17.1	17.1	16.3
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)