

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: P506898

Luminaire Tested: **24PD-90-PR1-L830**

Issue Date: 3/26/2021



**Test Information**

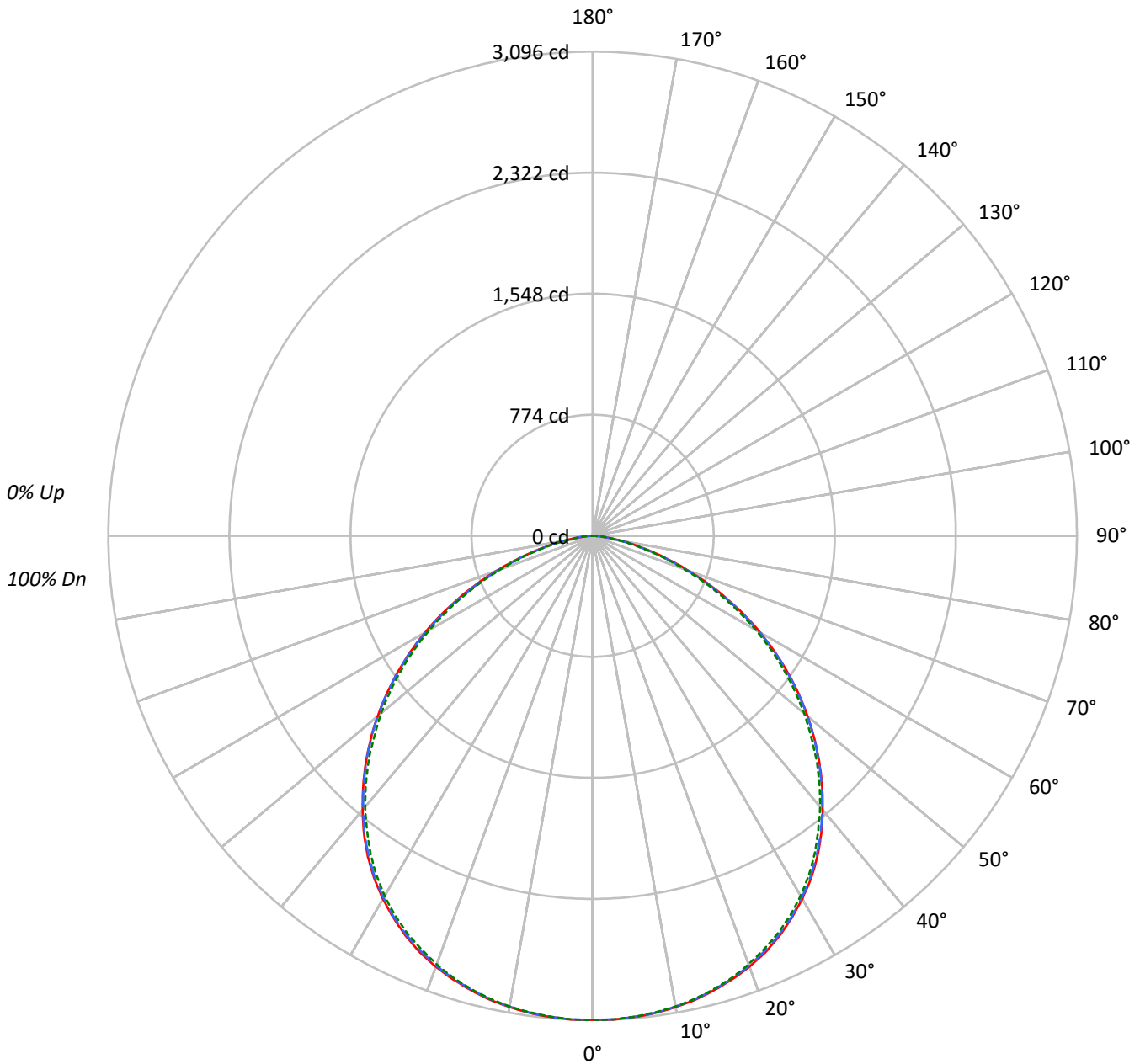
Test Method: LM-79-08  
Report Number: P506898  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-90-PR1-L830  
Description: 9000 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: 8334.0 lumens  
Efficiency: N/A  
Efficacy: 119.6 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): 69.7  
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°	4165	4165	4165
5°	4172	4170	4168
10°	4181	4177	4176
15°	4190	4184	4180
20°	4198	4187	4175
25°	4193	4181	4164
30°	4165	4154	4131
35°	4114	4101	4068
40°	4019	4009	3974
45°	3901	3894	3850
50°	3755	3754	3697
55°	3571	3563	3496
60°	3328	3315	3240
65°	2998	2963	2894
70°	2560	2522	2460
75°	2024	1979	1933
80°	1437	1400	1357
85°	865	840	815



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.8	3.5
10°-20°	848.3	10.2
20°-30°	1296.8	15.6
30°-40°	1557.3	18.7
40°-50°	1573.8	18.9
50°-60°	1352.2	16.2
60°-70°	922.4	11.1
70°-80°	414.7	5.0
80°-90°	74.6	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°	2438.9	29.3
0°-40°	3996.2	48.0
0°-60°	6922.2	83.1
0°-90°	8334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8334.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3096	3096	3096	3096	3096	
5°	3089	3088	3088	3086	3086	294
15°	3008	3007	3004	3001	3000	850
25°	2825	2824	2817	2807	2805	1301
35°	2505	2505	2497	2482	2477	1564
45°	2050	2056	2047	2032	2024	1580
55°	1522	1528	1519	1505	1490	1358
65°	942	947	931	924	909	932
75°	389	392	381	378	372	422
85°	56	57	54	54	53	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3095.6	3095.6	3095.6	3095.6	3095.6
2.5°	3096.4	3095.6	3094.8	3093.2	3095.6
5°	3089.2	3088.4	3087.6	3086.0	3086.0
7.5°	3078.0	3076.4	3076.4	3074.0	3073.2
10°	3060.4	3059.6	3057.2	3057.2	3056.4
12.5°	3038.1	3036.5	3034.1	3033.3	3031.7
15°	3007.7	3006.9	3003.7	3001.3	3000.5
17.5°	2973.3	2970.9	2968.5	2962.9	2962.9
20°	2931.7	2930.1	2924.5	2918.9	2915.7
22.5°	2883.8	2880.6	2874.2	2868.6	2862.2
25°	2824.6	2823.8	2816.6	2807.0	2804.6
27.5°	2755.8	2757.4	2750.2	2740.6	2735.9
30°	2680.7	2683.9	2673.5	2661.5	2659.1
32.5°	2598.3	2599.1	2590.3	2577.6	2572.8
35°	2504.8	2504.8	2496.8	2481.6	2476.8
37.5°	2400.9	2400.1	2395.3	2377.7	2368.9
40°	2288.1	2292.1	2282.5	2266.6	2262.6
42.5°	2171.4	2176.2	2167.4	2153.8	2145.0
45°	2049.9	2055.5	2046.7	2032.3	2023.5
47.5°	1924.4	1928.4	1922.0	1903.6	1891.6
50°	1794.1	1802.0	1793.3	1774.1	1766.1
52.5°	1659.7	1668.5	1658.1	1643.7	1628.6
55°	1522.2	1527.8	1519.0	1505.4	1490.2
57.5°	1380.7	1391.9	1377.5	1361.5	1348.7
60°	1236.8	1246.4	1232.0	1217.6	1204.0
62.5°	1090.5	1096.9	1080.9	1072.1	1056.1
65°	941.8	946.6	930.6	924.2	909.0
67.5°	794.7	798.7	783.5	774.7	765.9
70°	650.8	654.0	641.2	633.2	625.2
72.5°	514.9	515.7	503.7	501.3	491.7
75°	389.4	392.5	380.6	378.2	371.8
77.5°	279.8	280.6	272.6	271.0	265.4
80°	185.5	186.3	180.7	179.9	175.1
82.5°	111.9	112.7	107.9	107.9	104.7
85°	56.0	56.8	54.4	54.4	52.8
87.5°	19.2	20.0	19.2	19.2	18.4
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)