

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: P506901

Luminaire Tested: **24PD-90-PR1-L850**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506901  
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-L850  
Description: 9000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

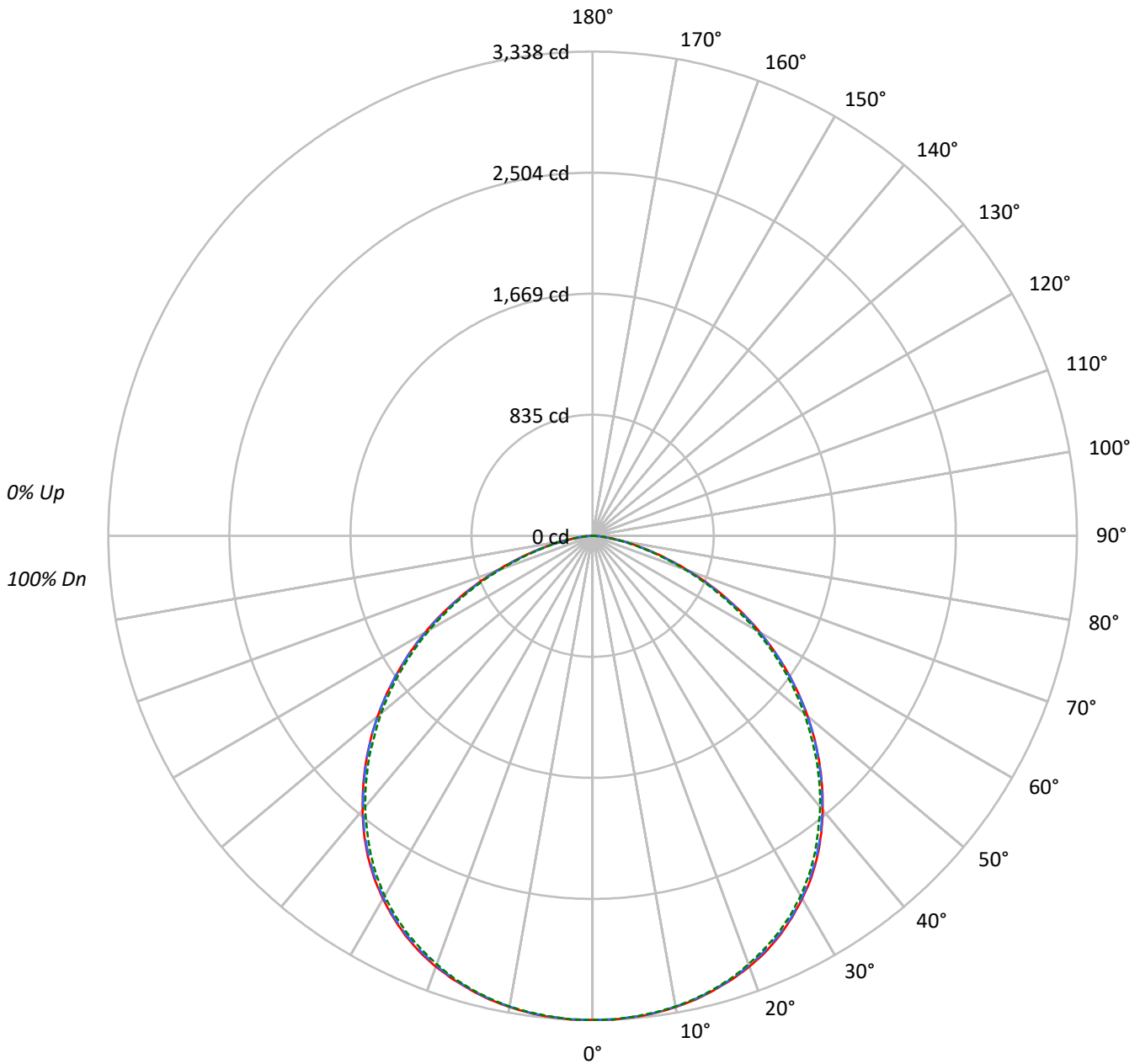
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8985.0 lumens  
Efficiency: N/A  
Efficacy: 128.9 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°	4490	4490	4490
5°	4498	4496	4494
10°	4508	4503	4502
15°	4517	4511	4506
20°	4526	4515	4501
25°	4521	4508	4489
30°	4490	4478	4454
35°	4436	4421	4386
40°	4333	4322	4284
45°	4205	4199	4151
50°	4049	4047	3985
55°	3850	3842	3769
60°	3588	3574	3493
65°	3233	3194	3120
70°	2760	2720	2651
75°	2182	2133	2084
80°	1550	1509	1463
85°	931	905	878



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.7	3.5
10°-20°	914.6	10.2
20°-30°	1398.1	15.6
30°-40°	1679.0	18.7
40°-50°	1696.7	18.9
50°-60°	1457.9	16.2
60°-70°	994.5	11.1
70°-80°	447.1	5.0
80°-90°	80.4	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°	2629.4	29.3
0°-40°	4308.4	48.0
0°-60°	7463.0	83.1
0°-90°	8985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8985.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3337	3337	3337	3337	3337	
5°	3330	3330	3329	3327	3327	317
15°	3243	3242	3238	3236	3235	916
25°	3045	3044	3037	3026	3024	1402
35°	2700	2700	2692	2676	2670	1686
45°	2210	2216	2207	2191	2182	1703
55°	1641	1647	1638	1623	1607	1465
65°	1015	1020	1003	996	980	1005
75°	420	423	410	408	401	455
85°	60	61	59	59	57	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3337.4	3337.4	3337.4	3337.4	3337.4
2.5°	3338.3	3337.4	3336.6	3334.8	3337.4
5°	3330.5	3329.7	3328.8	3327.1	3327.1
7.5°	3318.5	3316.7	3316.7	3314.2	3313.3
10°	3299.5	3298.6	3296.1	3296.1	3295.2
12.5°	3275.4	3273.6	3271.1	3270.2	3268.5
15°	3242.6	3241.8	3238.3	3235.7	3234.9
17.5°	3205.6	3203.0	3200.4	3194.4	3194.4
20°	3160.7	3159.0	3153.0	3146.9	3143.5
22.5°	3109.0	3105.6	3098.7	3092.6	3085.7
25°	3045.2	3044.4	3036.6	3026.3	3023.7
27.5°	2971.1	2972.8	2965.1	2954.7	2949.6
30°	2890.1	2893.5	2882.3	2869.4	2866.8
32.5°	2801.3	2802.2	2792.7	2778.9	2773.7
35°	2700.5	2700.5	2691.8	2675.5	2670.3
37.5°	2588.4	2587.5	2582.4	2563.4	2553.9
40°	2466.9	2471.2	2460.8	2443.6	2439.3
42.5°	2341.0	2346.2	2336.7	2322.1	2312.6
45°	2210.0	2216.0	2206.6	2191.1	2181.6
47.5°	2074.7	2079.0	2072.1	2052.3	2039.4
50°	1934.2	1942.8	1933.3	1912.6	1904.0
52.5°	1789.4	1798.9	1787.7	1772.1	1755.8
55°	1641.1	1647.2	1637.7	1623.0	1606.7
57.5°	1488.6	1500.6	1485.1	1467.9	1454.1
60°	1333.4	1343.8	1328.3	1312.7	1298.1
62.5°	1175.7	1182.6	1165.3	1155.9	1138.6
65°	1015.4	1020.5	1003.3	996.4	980.0
67.5°	856.8	861.1	844.7	835.2	825.7
70°	701.6	705.1	691.3	682.7	674.0
72.5°	555.1	556.0	543.0	540.4	530.1
75°	419.8	423.2	410.3	407.7	400.8
77.5°	301.7	302.5	293.9	292.2	286.2
80°	200.0	200.8	194.8	193.9	188.8
82.5°	120.7	121.5	116.4	116.4	112.9
85°	60.3	61.2	58.6	58.6	56.9
87.5°	20.7	21.5	20.7	20.7	19.8
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)