

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: P505839

Luminaire Tested: **14PD-25-PL1-L850**

Issue Date: 3/26/2021

**Test Information**

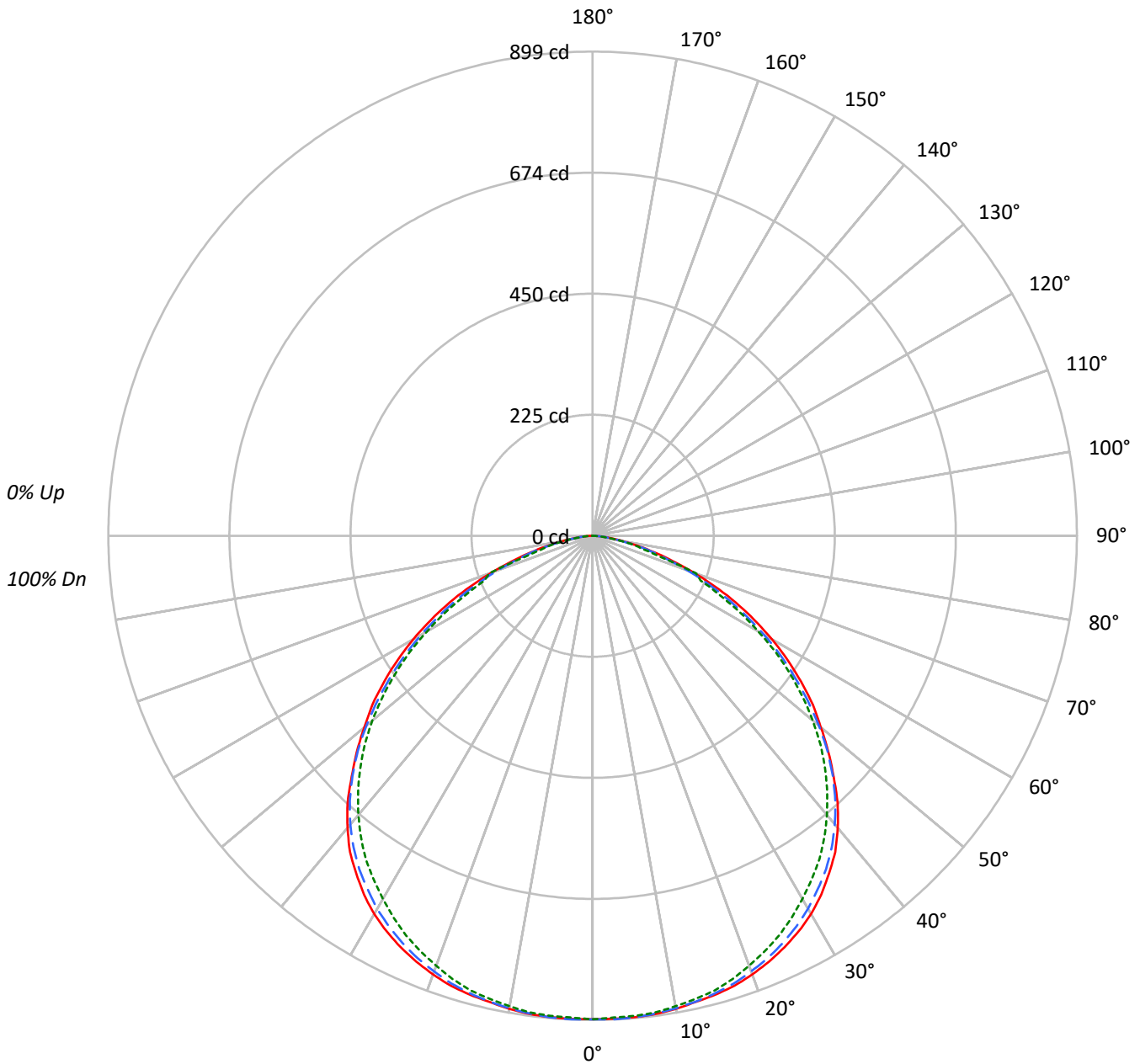
Test Method: LM-79-08  
Report Number: P505839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-25-PL1-L850  
Description: 2500 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,  
5000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2495.1 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 22.7  
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	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61																			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52																			
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45																			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40																			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35																			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31																			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28																			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25																			

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

	0°	45°	90°
0°	2416	2416	2416
5°	2424	2425	2417
10°	2437	2434	2423
15°	2457	2450	2435
20°	2482	2465	2432
25°	2503	2478	2431
30°	2520	2485	2419
35°	2513	2481	2410
40°	2487	2458	2376
45°	2407	2399	2323
50°	2316	2295	2233
55°	2216	2151	2102
60°	2069	1977	1911
65°	1864	1748	1654
70°	1559	1463	1606
75°	1230	1184	1025
80°	886	787	803
85°	562	472	442



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.4	3.4
10°-20°	248.1	9.9
20°-30°	383.6	15.4
30°-40°	469.5	18.8
40°-50°	481.3	19.3
50°-60°	409.9	16.4
60°-70°	273.9	11.0
70°-80°	121.4	4.9
80°-90°	22.0	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°	717.1	28.7
0°-40°	1186.6	47.6
0°-60°	2077.8	83.3
0°-90°	2495.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2495.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	898	898	898	898	898	
5°	897	895	898	897	895	85
15°	882	879	880	877	874	249
25°	843	840	835	824	819	389
35°	765	763	755	738	734	478
45°	632	634	630	616	610	488
55°	472	470	458	449	448	421
65°	293	290	275	262	260	289
75°	118	120	114	114	99	128
85°	18	18	15	15	14	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	897.7	897.7	897.7	897.7	897.7
2.5°	897.7	896.3	898.7	899.7	895.3
5°	897.3	895.3	897.7	897.3	894.8
7.5°	895.8	892.3	894.8	893.8	892.8
10°	891.8	888.9	890.8	889.4	886.9
12.5°	886.4	884.4	885.9	884.4	881.0
15°	882.0	879.0	879.5	877.0	874.1
17.5°	876.1	871.6	871.6	866.7	863.2
20°	866.7	862.7	860.8	853.9	849.4
22.5°	855.8	852.9	848.9	840.1	835.1
25°	843.0	840.1	834.6	823.8	818.9
27.5°	828.2	824.3	818.4	805.6	799.6
30°	811.0	806.0	799.6	785.3	778.4
32.5°	789.8	786.3	777.9	763.2	756.7
35°	765.1	763.2	755.3	738.5	733.6
37.5°	740.0	736.0	729.1	711.4	706.5
40°	707.9	705.5	699.6	682.3	676.4
42.5°	673.4	672.0	667.0	650.8	644.3
45°	632.5	634.5	630.5	616.2	610.3
47.5°	593.6	592.6	591.1	578.3	573.4
50°	553.1	551.2	548.2	537.9	533.4
52.5°	515.2	511.2	503.3	494.5	491.5
55°	472.3	469.8	458.5	449.1	448.1
57.5°	428.9	427.4	413.6	402.8	402.8
60°	384.5	382.6	367.3	355.9	355.0
62.5°	338.2	336.7	320.9	308.1	308.6
65°	292.8	290.4	274.6	262.3	259.8
67.5°	245.5	244.5	229.2	217.9	216.9
70°	198.2	198.2	185.9	176.0	204.1
72.5°	156.3	154.8	144.9	140.5	134.1
75°	118.3	119.8	113.9	114.4	98.6
77.5°	84.3	81.8	79.4	73.9	78.4
80°	57.2	55.7	50.8	49.3	51.8
82.5°	35.5	36.0	31.6	28.6	28.1
85°	18.2	17.7	15.3	14.8	14.3
87.5°	6.9	7.4	6.4	5.9	5.4
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)