

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: P506133

Luminaire Tested: **14PD-80-PL1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506133
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-80-PL1-L830
Description: 8000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

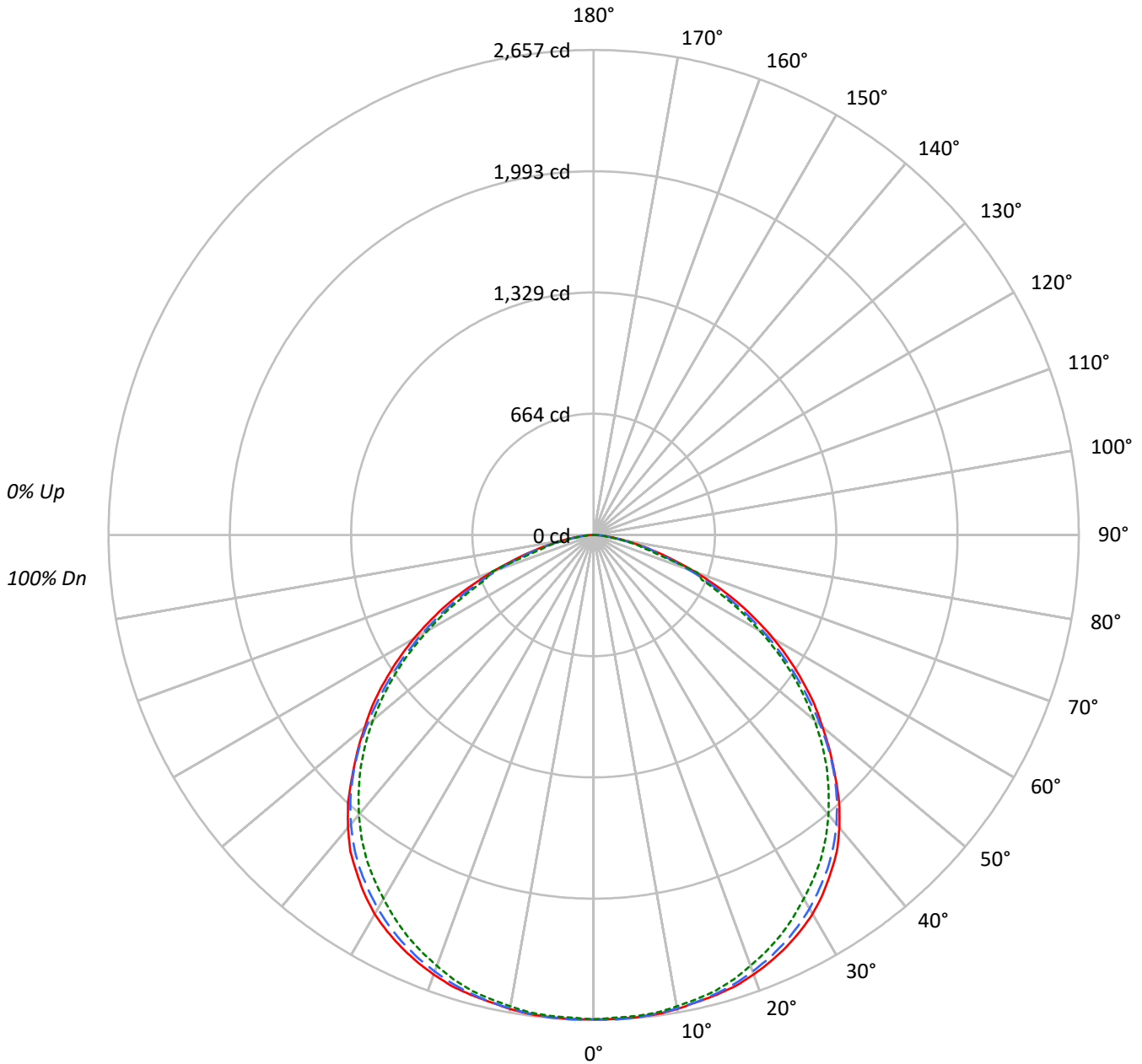
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7377.7 lumens
Efficiency: N/A
Efficacy: 87.4 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): 84.4
Input Voltage (V): NR
Input Current (A_{in}): 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°	7143	7143	7143
5°	7166	7170	7147
10°	7206	7198	7166
15°	7265	7245	7200
20°	7339	7289	7192
25°	7401	7328	7189
30°	7451	7347	7152
35°	7432	7336	7126
40°	7353	7266	7026
45°	7118	7095	6868
50°	6847	6786	6603
55°	6552	6360	6217
60°	6119	5845	5649
65°	5514	5170	4891
70°	4611	4324	4748
75°	3638	3501	3031
80°	2620	2326	2373
85°	1664	1396	1306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.4	3.4
10°-20°	733.6	9.9
20°-30°	1134.3	15.4
30°-40°	1388.2	18.8
40°-50°	1423.2	19.3
50°-60°	1212.1	16.4
60°-70°	810.0	11.0
70°-80°	359.0	4.9
80°-90°	64.9	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°	2120.3	28.7
0°-40°	3508.5	47.6
0°-60°	6143.8	83.3
0°-90°	7377.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7377.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2654	2654	2654	2654	2654	
5°	2653	2647	2654	2653	2646	253
15°	2608	2599	2601	2593	2584	737
25°	2493	2484	2468	2436	2421	1149
35°	2262	2256	2233	2184	2169	1415
45°	1870	1876	1864	1822	1805	1444
55°	1396	1389	1356	1328	1325	1246
65°	866	859	812	776	768	853
75°	350	354	337	338	292	379
85°	54	52	45	44	42	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2654.5	2654.5	2654.5	2654.5	2654.5
2.5°	2654.5	2650.1	2657.4	2660.3	2647.2
5°	2653.0	2647.2	2654.5	2653.0	2645.8
7.5°	2648.7	2638.5	2645.8	2642.8	2639.9
10°	2637.0	2628.3	2634.1	2629.7	2622.4
12.5°	2621.0	2615.1	2619.5	2615.1	2604.9
15°	2607.9	2599.1	2600.6	2593.3	2584.5
17.5°	2590.4	2577.2	2577.2	2562.7	2552.5
20°	2562.7	2551.0	2545.2	2524.8	2511.6
22.5°	2530.6	2521.9	2510.2	2483.9	2469.4
25°	2492.7	2483.9	2467.9	2435.8	2421.3
27.5°	2449.0	2437.3	2419.8	2381.9	2364.4
30°	2397.9	2383.4	2364.4	2322.1	2301.7
32.5°	2335.3	2325.1	2300.3	2256.5	2237.6
35°	2262.4	2256.5	2233.2	2183.7	2169.1
37.5°	2188.0	2176.4	2156.0	2103.5	2088.9
40°	2093.3	2086.0	2068.5	2017.5	2000.0
42.5°	1991.2	1986.9	1972.3	1924.2	1905.2
45°	1870.3	1876.1	1864.4	1822.1	1804.7
47.5°	1755.1	1752.2	1747.8	1709.9	1695.3
50°	1635.6	1629.7	1621.0	1590.4	1577.2
52.5°	1523.3	1511.7	1488.3	1462.1	1453.3
55°	1396.5	1389.2	1355.7	1328.0	1325.1
57.5°	1268.2	1263.8	1223.0	1191.0	1191.0
60°	1137.0	1131.2	1086.0	1052.5	1049.6
62.5°	1000.0	995.6	949.0	911.1	912.5
65°	865.9	858.6	811.9	775.5	768.2
67.5°	725.9	723.0	677.8	644.3	641.4
70°	586.0	586.0	549.6	520.4	603.5
72.5°	462.1	457.7	428.6	415.4	396.5
75°	349.9	354.2	336.7	338.2	291.5
77.5°	249.3	242.0	234.7	218.7	231.8
80°	169.1	164.7	150.1	145.8	153.1
82.5°	105.0	106.4	93.3	84.5	83.1
85°	53.9	52.5	45.2	43.7	42.3
87.5°	20.4	21.9	19.0	17.5	16.0
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)