

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: P506835

Luminaire Tested: **24PD-80-PL1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-80-PL1-L830
Description: 8000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

Summary

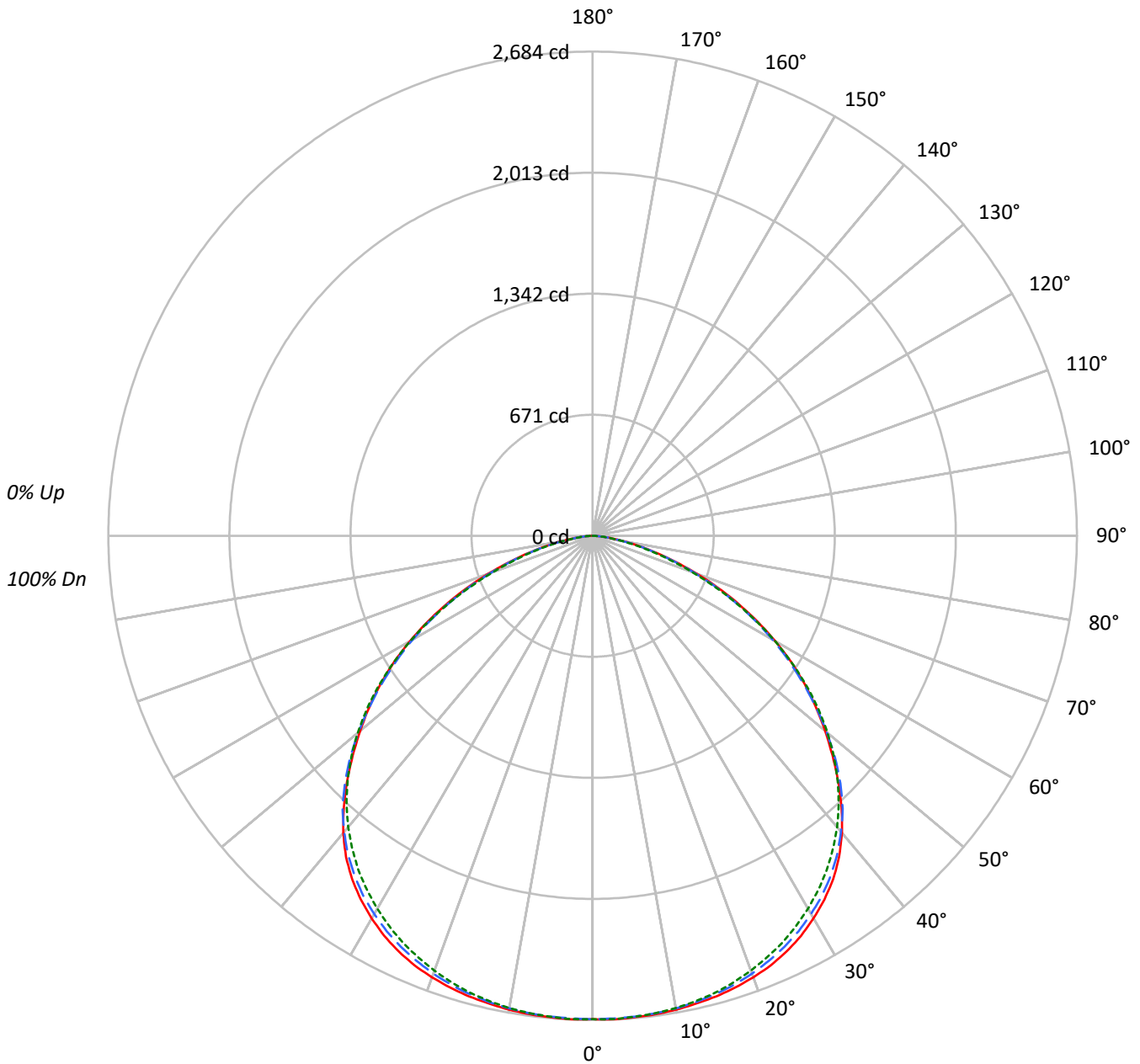
Lumens per Lamp: N/A
Luminaire Lumens: 7687.5 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
Input Voltage (V): NR
Input Current (A_{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

TEST NUMBER: P506835

CATALOG NUMBER: 24PD-80-PL1-L830

Luminous Intensity Polar Plot





TEST NUMBER: P506835

CATALOG NUMBER: 24PD-80-PL1-L830

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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72																			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61																			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52																			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																			
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39																			
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3606	3606	3606
5°	3619	3613	3614
10°	3644	3634	3631
15°	3683	3664	3653
20°	3729	3698	3672
25°	3775	3732	3694
30°	3804	3761	3709
35°	3817	3778	3716
40°	3776	3762	3702
45°	3661	3694	3654
50°	3519	3545	3557
55°	3367	3341	3391
60°	3150	3098	3138
65°	2834	2778	2775
70°	2413	2358	2304
75°	1900	1858	1782
80°	1359	1319	1245
85°	804	794	736



TEST NUMBER: P506835

CATALOG NUMBER: 24PD-80-PL1-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.0	3.3
10°-20°	743.8	9.7
20°-30°	1159.5	15.1
30°-40°	1434.8	18.7
40°-50°	1487.4	19.3
50°-60°	1280.7	16.7
60°-70°	868.9	11.3
70°-80°	387.7	5.0
80°-90°	69.7	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°	2158.3	28.1
0°-40°	3593.1	46.7
0°-60°	6361.2	82.7
0°-90°	7687.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7687.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2680	2680	2680	2680	2680	
5°	2680	2676	2675	2675	2676	255
15°	2644	2636	2631	2625	2623	748
25°	2543	2533	2514	2496	2488	1172
35°	2324	2317	2300	2276	2262	1450
45°	1924	1933	1942	1934	1920	1483
55°	1435	1436	1424	1440	1446	1280
65°	890	894	872	863	872	881
75°	365	368	357	349	343	397
85°	52	53	51	51	48	72
90°	0	0	0	0	0	



TEST NUMBER: P506835

CATALOG NUMBER: 24PD-80-PL1-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2679.8	2679.8	2679.8	2679.8	2679.8
2.5°	2683.5	2677.6	2678.3	2679.1	2682.0
5°	2679.8	2676.1	2675.4	2675.4	2676.1
7.5°	2675.4	2671.0	2670.3	2669.5	2669.5
10°	2667.3	2662.9	2660.0	2658.5	2657.8
12.5°	2656.3	2651.2	2647.5	2644.6	2642.4
15°	2643.9	2636.5	2630.6	2624.8	2622.6
17.5°	2626.2	2619.6	2609.4	2599.8	2596.2
20°	2604.2	2597.6	2582.9	2569.7	2564.6
22.5°	2578.5	2569.0	2550.7	2536.0	2528.6
25°	2542.6	2533.1	2514.0	2495.6	2488.3
27.5°	2500.8	2492.0	2471.4	2449.4	2440.6
30°	2448.7	2442.8	2420.8	2396.6	2387.0
32.5°	2390.7	2384.8	2365.7	2338.6	2327.6
35°	2323.9	2317.3	2300.4	2275.5	2262.3
37.5°	2244.7	2242.5	2226.3	2200.6	2188.2
40°	2150.0	2154.4	2141.9	2119.9	2107.5
42.5°	2042.1	2051.7	2051.7	2031.1	2018.7
45°	1924.0	1932.8	1941.6	1934.3	1920.3
47.5°	1802.9	1812.5	1822.7	1825.7	1813.9
50°	1681.1	1687.0	1693.6	1706.8	1699.5
52.5°	1560.0	1562.2	1560.0	1577.7	1576.2
55°	1435.3	1436.0	1424.3	1440.4	1445.6
57.5°	1305.4	1307.6	1288.5	1297.3	1308.4
60°	1170.4	1172.6	1151.3	1152.8	1166.0
62.5°	1031.0	1033.9	1012.6	1007.5	1019.2
65°	890.1	893.8	872.5	862.9	871.7
67.5°	749.9	754.3	734.5	722.8	725.0
70°	613.5	617.1	599.5	588.5	585.6
72.5°	483.6	487.2	473.3	462.3	457.2
75°	365.4	368.4	357.4	349.3	342.7
77.5°	262.7	264.9	256.1	250.2	243.6
80°	175.4	176.1	170.2	166.6	160.7
82.5°	104.9	105.7	102.0	100.5	96.1
85°	52.1	52.8	51.4	51.4	47.7
87.5°	18.3	17.6	18.3	18.3	16.1
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)