

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: P506845

Luminaire Tested: **24PD-80-PR1-L835**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506845  
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-80-PR1-L835  
Description: 8000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
3500K LEDS  
Light Source: -  
Ballast/Driver: -

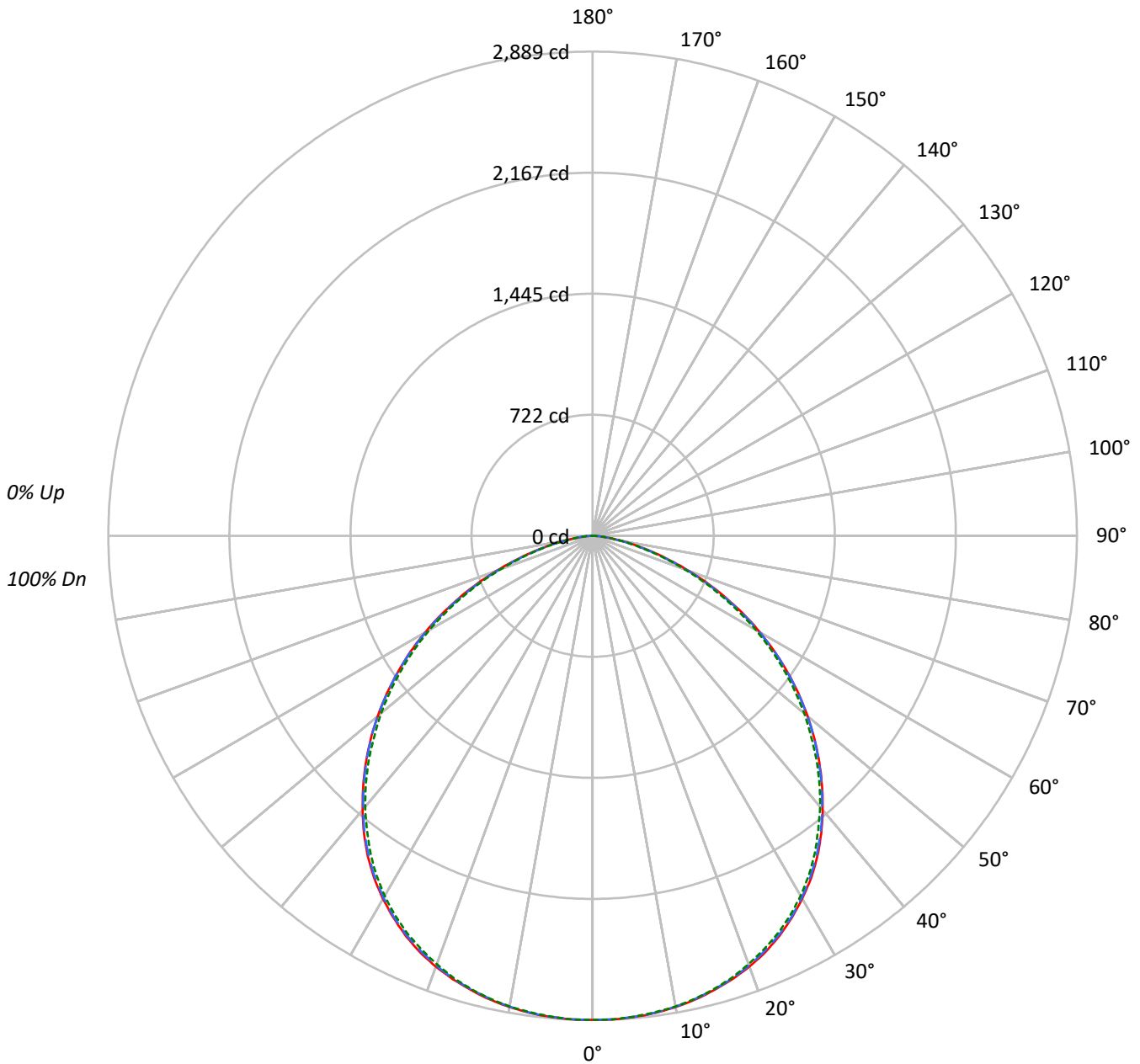
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7776.0 lumens  
Efficiency: N/A  
Efficacy: 127.1 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): 61.2  
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

TEST NUMBER: P506845

CATALOG NUMBER: 24PD-80-PR1-L835

### Luminous Intensity Polar Plot





TEST NUMBER: P506845

CATALOG NUMBER: 24PD-80-PR1-L835

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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°	3886	3886	3886
5°	3893	3891	3889
10°	3901	3897	3896
15°	3909	3904	3900
20°	3917	3907	3895
25°	3913	3901	3885
30°	3886	3876	3855
35°	3839	3826	3796
40°	3750	3741	3708
45°	3639	3634	3593
50°	3504	3502	3449
55°	3332	3325	3262
60°	3105	3093	3023
65°	2798	2764	2700
70°	2389	2354	2295
75°	1889	1846	1803
80°	1341	1306	1266
85°	806	783	760



TEST NUMBER: P506845

CATALOG NUMBER: 24PD-80-PR1-L835

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.1	3.5
10°-20°	791.5	10.2
20°-30°	1210.0	15.6
30°-40°	1453.0	18.7
40°-50°	1468.4	18.9
50°-60°	1261.7	16.2
60°-70°	860.7	11.1
70°-80°	387.0	5.0
80°-90°	69.6	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°	2275.6	29.3
0°-40°	3728.7	48.0
0°-60°	6458.8	83.1
0°-90°	7776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7776.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2888	2888	2888	2888	2888	
5°	2882	2882	2881	2879	2879	274
15°	2806	2806	2803	2800	2800	793
25°	2636	2635	2628	2619	2617	1214
35°	2337	2337	2330	2316	2311	1459
45°	1913	1918	1910	1896	1888	1474
55°	1420	1426	1417	1405	1390	1268
65°	879	883	868	862	848	870
75°	363	366	355	353	347	394
85°	52	53	51	51	49	71
90°	0	0	0	0	0	



TEST NUMBER: P506845

CATALOG NUMBER: 24PD-80-PR1-L835

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2888.4	2888.4	2888.4	2888.4	2888.4
2.5°	2889.1	2888.4	2887.6	2886.1	2888.4
5°	2882.4	2881.6	2880.9	2879.4	2879.4
7.5°	2871.9	2870.5	2870.5	2868.2	2867.5
10°	2855.5	2854.8	2852.6	2852.6	2851.8
12.5°	2834.6	2833.2	2830.9	2830.2	2828.7
15°	2806.3	2805.6	2802.6	2800.3	2799.6
17.5°	2774.2	2772.0	2769.7	2764.5	2764.5
20°	2735.4	2733.9	2728.7	2723.5	2720.5
22.5°	2690.7	2687.7	2681.7	2676.5	2670.5
25°	2635.5	2634.7	2628.0	2619.1	2616.8
27.5°	2571.3	2572.8	2566.1	2557.2	2552.7
30°	2501.2	2504.2	2494.5	2483.3	2481.1
32.5°	2424.4	2425.1	2416.9	2405.0	2400.5
35°	2337.1	2337.1	2329.6	2315.5	2311.0
37.5°	2240.1	2239.4	2234.9	2218.5	2210.3
40°	2134.9	2138.7	2129.7	2114.8	2111.1
42.5°	2026.0	2030.5	2022.3	2009.6	2001.4
45°	1912.6	1917.9	1909.7	1896.2	1888.0
47.5°	1795.5	1799.3	1793.3	1776.1	1764.9
50°	1673.9	1681.4	1673.2	1655.3	1647.8
52.5°	1548.6	1556.8	1547.1	1533.7	1519.5
55°	1420.3	1425.5	1417.3	1404.6	1390.5
57.5°	1288.3	1298.7	1285.3	1270.4	1258.4
60°	1154.0	1163.0	1149.5	1136.1	1123.4
62.5°	1017.5	1023.5	1008.5	1000.3	985.4
65°	878.7	883.2	868.3	862.3	848.2
67.5°	741.5	745.2	731.0	722.8	714.6
70°	607.2	610.2	598.3	590.8	583.3
72.5°	480.4	481.1	470.0	467.7	458.8
75°	363.3	366.3	355.1	352.8	346.9
77.5°	261.1	261.8	254.4	252.9	247.7
80°	173.1	173.8	168.6	167.8	163.4
82.5°	104.4	105.2	100.7	100.7	97.7
85°	52.2	53.0	50.7	50.7	49.2
87.5°	17.9	18.6	17.9	17.9	17.2
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)