

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P865483

Luminaire Tested: PRLX-2001-S-930-20L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-S-930-20L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

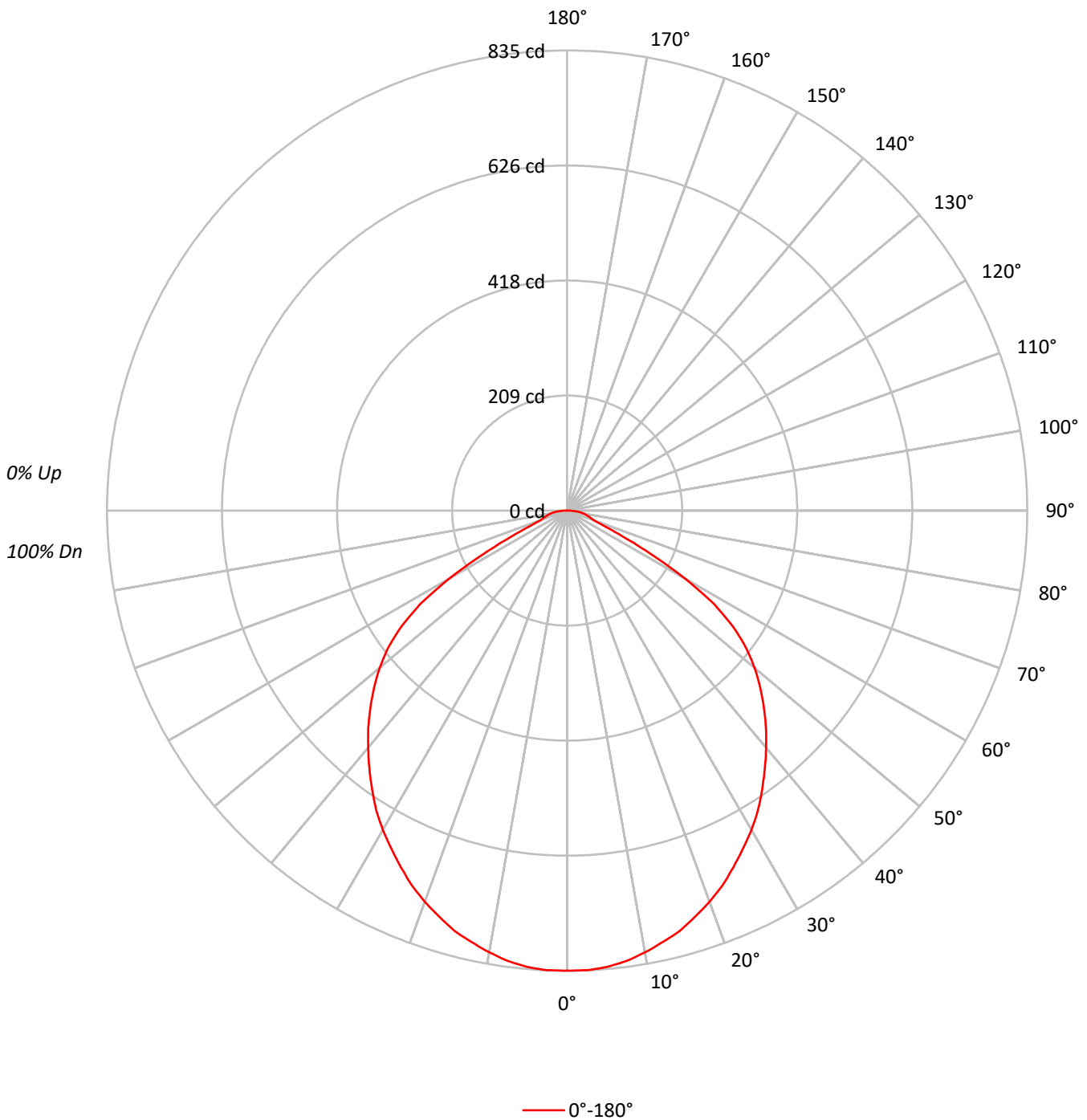
Lumens per Lamp: N/A
Luminaire Lumens: 1910.3 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P865483

CATALOG NUMBER: PRLX-2001-S-930-20L-L-U-S-X-X-WHHR-X

Luminous Intensity Polar Plot





TEST NUMBER: P865483

CATALOG NUMBER: PRLX-2001-S-930-20L-L-U-S-X-X-WHHR-X

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13616
5°	13610
10°	13481
15°	13336
20°	13110
25°	12846
30°	12598
35°	12285
40°	11959
45°	11641
50°	11271
55°	10467
60°	8064
65°	4268
70°	2470
75°	2508
80°	2761
85°	3237

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11641 cd/sqm

TEST NUMBER: P865483

CATALOG NUMBER: PRLX-2001-S-930-20L-L-U-S-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	4.1
10°-20°	222.3	11.6
20°-30°	329.0	17.2
30°-40°	386.0	20.2
40°-50°	389.3	20.4
50°-60°	321.3	16.8
60°-70°	123.8	6.5
70°-80°	42.2	2.2
80°-90°	17.6	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°	630.1	33.0
0°-40°	1016.1	53.2
0°-60°	1726.7	90.4
0°-90°	1910.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1910.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	835	
5°	831	79
15°	790	222
25°	714	329
35°	617	386
45°	505	389
55°	368	321
65°	111	124
75°	40	42
85°	17	18
90°	0	

TEST NUMBER: P865483

CATALOG NUMBER: PRLX-2001-S-930-20L-L-U-S-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	834.8
2.5°	834.8
5°	831.3
7.5°	824.4
10°	814.0
12.5°	801.9
15°	789.8
17.5°	772.6
20°	755.3
22.5°	736.3
25°	713.8
27.5°	691.3
30°	668.9
32.5°	644.7
35°	617.0
37.5°	589.4
40°	561.7
42.5°	534.1
45°	504.7
47.5°	475.3
50°	444.2
52.5°	409.6
55°	368.1
57.5°	316.3
60°	247.2
62.5°	172.8
65°	110.6
67.5°	70.9
70°	51.8
72.5°	44.9
75°	39.8
77.5°	34.6
80°	29.4
82.5°	24.2
85°	17.3
87.5°	8.6
90°	0.0



TEST NUMBER: P865483
 CATALOG NUMBER: PRLX-2001-S-930-20L-L-U-S-X-X-WHHR-X

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	20.13	21.64	20.49	21.95	22.27	20.13	21.64	20.49	21.95	22.27
	3H	20.27	21.61	20.64	21.94	22.30	20.27	21.61	20.64	21.94	22.30
	4H	20.33	21.59	20.73	21.93	22.31	20.33	21.59	20.73	21.93	22.31
	6H	20.41	21.57	20.82	21.94	22.33	20.41	21.57	20.82	21.94	22.33
	8H	20.45	21.56	20.88	21.95	22.35	20.45	21.56	20.88	21.95	22.35
	12H	20.50	21.55	20.93	21.93	22.36	20.50	21.55	20.93	21.93	22.36
4H	2H	20.16	21.42	20.56	21.77	22.15	20.16	21.42	20.56	21.77	22.15
	3H	20.38	21.41	20.79	21.81	22.21	20.38	21.41	20.79	21.81	22.21
	4H	20.50	21.42	20.93	21.83	22.27	20.50	21.42	20.93	21.83	22.27
	6H	20.67	21.47	21.13	21.91	22.37	20.67	21.47	21.13	21.91	22.37
	8H	20.75	21.50	21.22	21.94	22.41	20.75	21.50	21.22	21.94	22.41
	12H	20.84	21.51	21.32	21.99	22.46	20.84	21.51	21.32	21.99	22.46
8H	4H	20.49	21.24	20.96	21.68	22.15	20.49	21.24	20.96	21.68	22.15
	6H	20.73	21.35	21.23	21.84	22.32	20.73	21.35	21.23	21.84	22.32
	8H	20.87	21.43	21.38	21.94	22.43	20.87	21.43	21.38	21.94	22.43
	12H	21.03	21.53	21.54	22.02	22.59	21.03	21.53	21.54	22.02	22.59
12H	4H	20.48	21.15	20.96	21.63	22.10	20.48	21.15	20.96	21.63	22.10
	6H	20.72	21.28	21.24	21.79	22.28	20.72	21.28	21.24	21.79	22.28
	8H	20.91	21.41	21.42	21.90	22.47	20.91	21.41	21.42	21.90	22.47