

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: P865461

Luminaire Tested: PRLX-2001-S-930-10L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-930-10L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

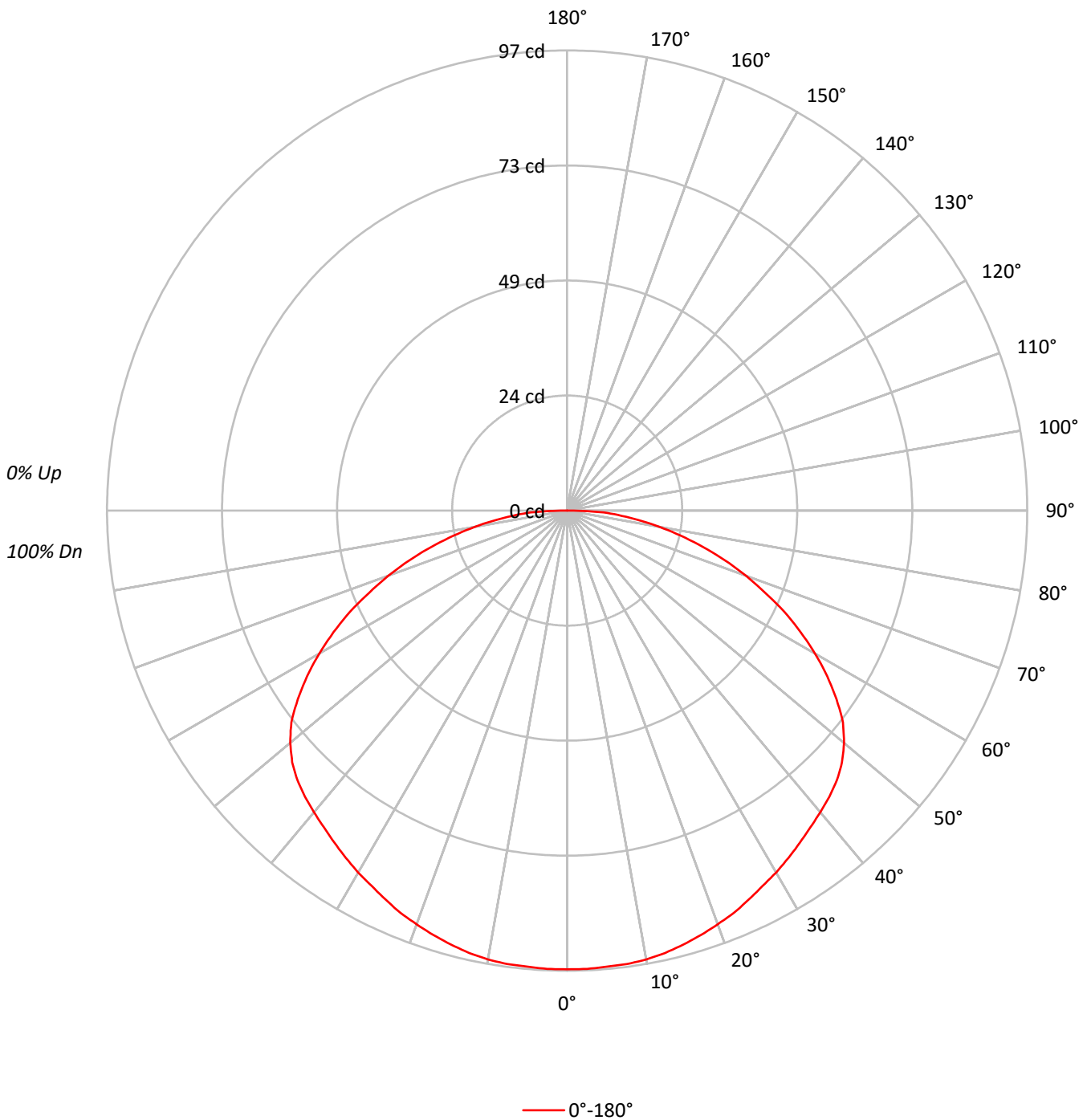
Lumens per Lamp: N/A
Luminaire Lumens: 348.0 lumens
Efficiency: N/A
Efficacy: 33.1 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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: P865461

CATALOG NUMBER: PRLX-2001-S-930-10L-G-U-S-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P865461

CATALOG NUMBER: PRLX-2001-S-930-10L-G-U-S-X-X-BRSS-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	107	102	97	93	105	100	95	91	95	92	89		91	89	86		88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71		79	74	70		76	72	68	66
3	88	76	67	60	85	75	66	60	72	64	59		69	63	58		66	61	57	54
4	80	67	57	50	77	66	57	50	63	55	49		61	54	48		58	53	48	45
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	36		48	41	36		47	41	36	33
7	62	48	39	32	60	47	38	32	45	38	32		44	37	31		43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28		40	33	28		39	33	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1577
5°	1580
10°	1592
15°	1599
20°	1611
25°	1629
30°	1659
35°	1702
40°	1767
45°	1855
50°	1934
55°	1971
60°	1970
65°	1949
70°	1912
75°	1865
80°	1850
85°	2021

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 2580 cd/sqm

TEST NUMBER: P865461

CATALOG NUMBER: PRLX-2001-S-930-10L-G-U-S-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	2.6
10°-20°	26.8	7.7
20°-30°	41.8	12.0
30°-40°	53.7	15.4
40°-50°	62.0	17.8
50°-60°	61.7	17.7
60°-70°	49.8	14.3
70°-80°	31.4	9.0
80°-90°	11.6	3.3
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°	77.8	22.4
0°-40°	131.4	37.8
0°-60°	255.2	73.3
0°-90°	348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	348.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	97	
5°	96	9
15°	95	27
25°	90	42
35°	86	54
45°	80	62
55°	69	62
65°	50	50
75°	30	31
85°	11	12
90°	0	

TEST NUMBER: P865461

CATALOG NUMBER: PRLX-2001-S-930-10L-G-U-S-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	96.7
2.5°	96.7
5°	96.5
7.5°	96.4
10°	96.1
12.5°	95.5
15°	94.7
17.5°	93.8
20°	92.8
22.5°	91.8
25°	90.5
27.5°	89.2
30°	88.1
32.5°	86.8
35°	85.5
37.5°	84.2
40°	83.0
42.5°	81.8
45°	80.4
47.5°	78.6
50°	76.2
52.5°	73.3
55°	69.3
57.5°	65.0
60°	60.4
62.5°	55.5
65°	50.5
67.5°	45.1
70°	40.1
72.5°	34.9
75°	29.6
77.5°	24.6
80°	19.7
82.5°	15.0
85°	10.8
87.5°	6.9
90°	0.0



TEST NUMBER: P865461
 CATALOG NUMBER: PRLX-2001-S-930-10L-G-U-S-X-X-BRSS-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	14.84	16.57	15.21	16.89	17.20	14.84	16.57	15.21	16.89	17.20
	3H	16.85	18.43	17.23	18.75	19.11	16.85	18.43	17.23	18.75	19.11
	4H	17.66	19.15	18.06	19.50	19.87	17.66	19.15	18.06	19.50	19.87
	6H	18.33	19.72	18.74	20.08	20.47	18.33	19.72	18.74	20.08	20.47
	8H	18.59	19.92	19.01	20.31	20.70	18.59	19.92	19.01	20.31	20.70
	12H	18.81	20.09	19.24	20.47	20.90	18.81	20.09	19.24	20.47	20.90
4H	2H	15.55	17.04	15.94	17.39	17.76	15.55	17.04	15.94	17.39	17.76
	3H	17.79	19.05	18.19	19.45	19.84	17.79	19.05	18.19	19.45	19.84
	4H	18.74	19.89	19.17	20.30	20.73	18.74	19.89	19.17	20.30	20.73
	6H	19.56	20.57	20.01	21.01	21.46	19.56	20.57	20.01	21.01	21.46
	8H	19.89	20.84	20.34	21.28	21.74	19.89	20.84	20.34	21.28	21.74
	12H	20.18	21.04	20.66	21.51	21.98	20.18	21.04	20.66	21.51	21.98
8H	4H	19.13	20.08	19.59	20.52	20.99	19.13	20.08	19.59	20.52	20.99
	6H	20.11	20.91	20.60	21.39	21.86	20.11	20.91	20.60	21.39	21.86
	8H	20.54	21.26	21.04	21.76	22.24	20.54	21.26	21.04	21.76	22.24
	12H	20.95	21.59	21.46	22.08	22.63	20.95	21.59	21.46	22.08	22.63
12H	4H	19.20	20.06	19.67	20.53	20.99	19.20	20.06	19.67	20.53	20.99
	6H	20.21	20.93	20.71	21.43	21.91	20.21	20.93	20.71	21.43	21.91
	8H	20.72	21.35	21.22	21.84	22.40	20.72	21.35	21.22	21.84	22.40