

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: P865779

Luminaire Tested: PRLX-2004-S-930-05L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-930-05L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

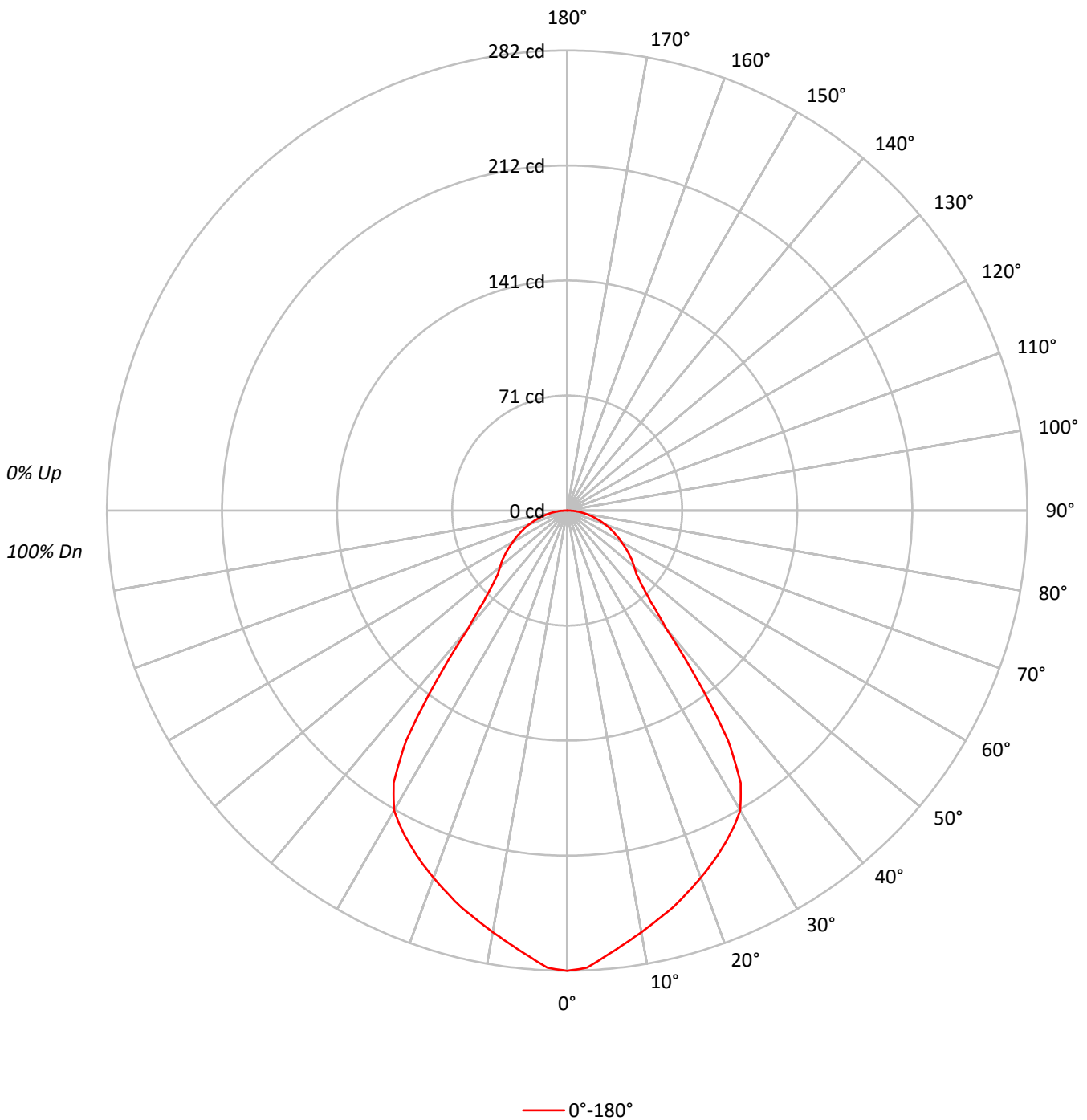
Lumens per Lamp: N/A
Luminaire Lumens: 452.3 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.07
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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: P865779

CATALOG NUMBER: PRLX-2004-S-930-05L-L-U-S-X-X-WHHR-X

Luminous Intensity Polar Plot





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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	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60
5	83	72	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49
7	72	61	53	47	71	60	53	47	58	52	47	57	51	47	56	50	46	45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4601
5°	4484
10°	4344
15°	4247
20°	4155
25°	4082
30°	3996
35°	3425
40°	2006
45°	1495
50°	1360
55°	1314
60°	1256
65°	1216
70°	1173
75°	1141
80°	1099
85°	1048

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1495 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.8	5.7
10°-20°	70.9	15.7
20°-30°	104.4	23.1
30°-40°	101.3	22.4
40°-50°	52.2	11.5
50°-60°	41.3	9.1
60°-70°	31.2	6.9
70°-80°	19.0	4.2
80°-90°	6.2	1.4
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°	201.1	44.5
0°-40°	302.4	66.9
0°-60°	395.9	87.5
0°-90°	452.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	452.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	282	
5°	274	26
15°	252	71
25°	227	104
35°	172	101
45°	65	52
55°	46	41
65°	32	31
75°	18	19
85°	6	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	282.1
2.5°	280.4
5°	273.9
7.5°	267.9
10°	262.3
12.5°	256.7
15°	251.5
17.5°	245.4
20°	239.4
22.5°	233.3
25°	226.8
27.5°	219.9
30°	212.2
32.5°	197.9
35°	172.0
37.5°	131.8
40°	94.2
42.5°	75.6
45°	64.8
47.5°	57.5
50°	53.6
52.5°	50.1
55°	46.2
57.5°	42.3
60°	38.5
62.5°	35.0
65°	31.5
67.5°	28.1
70°	24.6
72.5°	21.2
75°	18.1
77.5°	14.7
80°	11.7
82.5°	8.6
85°	5.6
87.5°	2.6
90°	0.0



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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	11.41	12.77	11.78	13.09	13.40	11.41	12.77	11.78	13.09	13.40
	3H	13.24	14.46	13.61	14.79	15.15	13.24	14.46	13.61	14.79	15.15
	4H	13.96	15.11	14.37	15.46	15.84	13.96	15.11	14.37	15.46	15.84
	6H	14.54	15.60	14.95	15.96	16.36	14.54	15.60	14.95	15.96	16.36
	8H	14.75	15.75	15.18	16.14	16.55	14.75	15.75	15.18	16.14	16.55
	12H	14.90	15.86	15.33	16.24	16.67	14.90	15.86	15.33	16.24	16.67
4H	2H	12.00	13.15	12.41	13.50	13.88	12.00	13.15	12.41	13.50	13.88
	3H	14.05	15.00	14.46	15.41	15.81	14.05	15.00	14.46	15.41	15.81
	4H	14.92	15.78	15.35	16.19	16.63	14.92	15.78	15.35	16.19	16.63
	6H	15.64	16.38	16.10	16.82	17.29	15.64	16.38	16.10	16.82	17.29
	8H	15.90	16.59	16.37	17.04	17.51	15.90	16.59	16.37	17.04	17.51
	12H	16.10	16.72	16.59	17.20	17.67	16.10	16.72	16.59	17.20	17.67
8H	4H	15.23	15.93	15.70	16.37	16.84	15.23	15.93	15.70	16.37	16.84
	6H	16.10	16.67	16.60	17.16	17.64	16.10	16.67	16.60	17.16	17.64
	8H	16.45	16.96	16.97	17.48	17.97	16.45	16.96	16.97	17.48	17.97
	12H	16.76	17.20	17.27	17.70	18.27	16.76	17.20	17.27	17.70	18.27
12H	4H	15.26	15.88	15.75	16.36	16.83	15.26	15.88	15.75	16.36	16.83
	6H	16.16	16.68	16.68	17.19	17.68	16.16	16.68	16.68	17.19	17.68
	8H	16.59	17.04	17.10	17.53	18.10	16.59	17.04	17.10	17.53	18.10