

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: P865739

Luminaire Tested: PRLX-2004-S-927-05L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865739
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-927-05L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

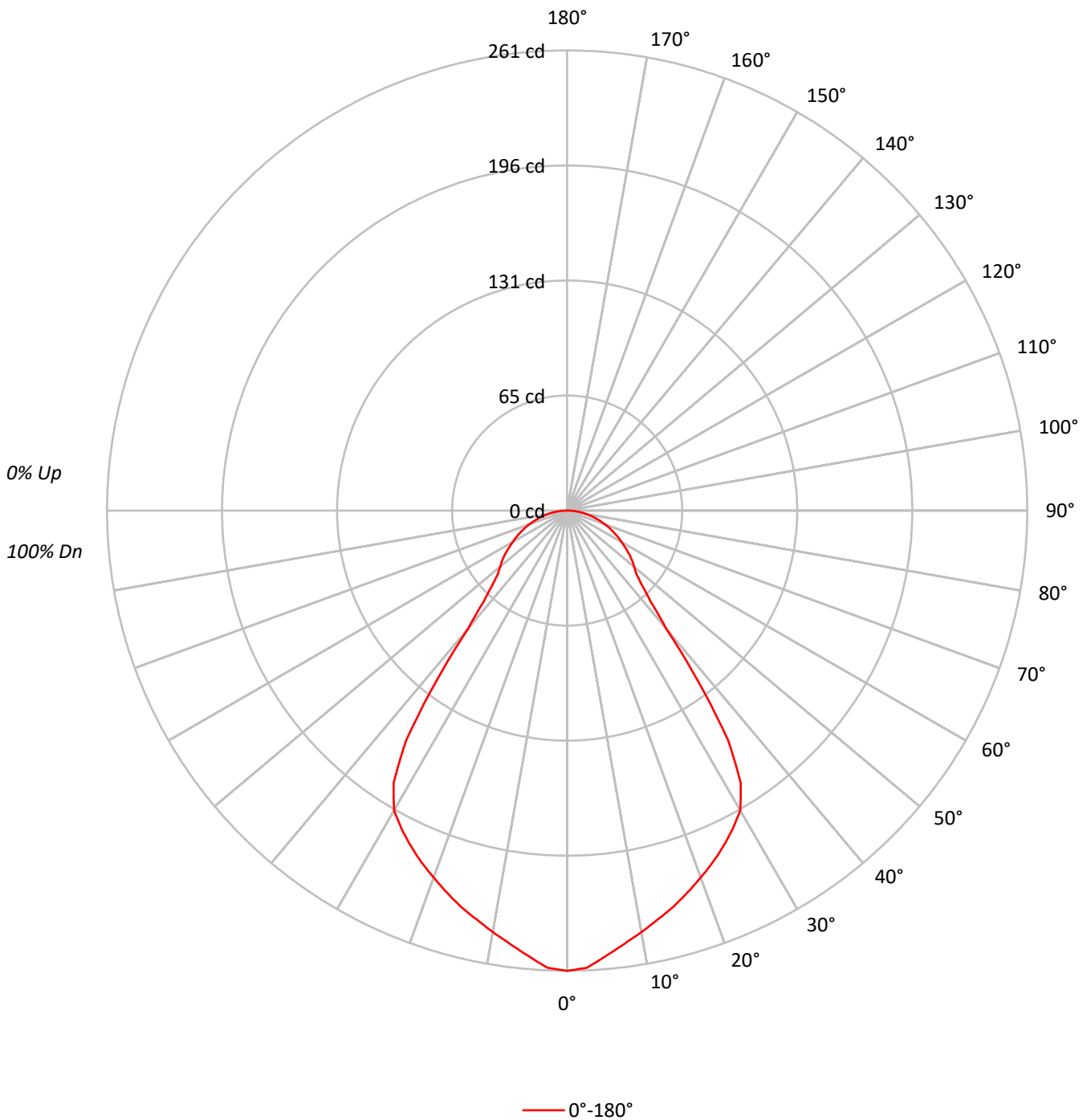
Lumens per Lamp: N/A
Luminaire Lumens: 418.6 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.07
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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

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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	76	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	52	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°	4259
5°	4150
10°	4020
15°	3929
20°	3845
25°	3777
30°	3697
35°	3168
40°	1857
45°	1384
50°	1259
55°	1217
60°	1161
65°	1127
70°	1087
75°	1059
80°	1014
85°	973

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1384 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.9	5.7
10°-20°	65.6	15.7
20°-30°	96.7	23.1
30°-40°	93.8	22.4
40°-50°	48.3	11.5
50°-60°	38.2	9.1
60°-70°	28.9	6.9
70°-80°	17.6	4.2
80°-90°	5.7	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°	186.1	44.4
0°-40°	279.8	66.8
0°-60°	366.4	87.5
0°-90°	418.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	418.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	261	
5°	254	24
15°	233	66
25°	210	97
35°	159	94
45°	60	48
55°	43	38
65°	29	29
75°	17	18
85°	5	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	261.1
2.5°	259.5
5°	253.5
7.5°	247.9
10°	242.7
12.5°	237.5
15°	232.7
17.5°	227.1
20°	221.5
22.5°	215.9
25°	209.9
27.5°	203.5
30°	196.3
32.5°	183.1
35°	159.1
37.5°	121.9
40°	87.2
42.5°	70.0
45°	60.0
47.5°	53.2
50°	49.6
52.5°	46.4
55°	42.8
57.5°	39.2
60°	35.6
62.5°	32.4
65°	29.2
67.5°	26.0
70°	22.8
72.5°	19.6
75°	16.8
77.5°	13.6
80°	10.8
82.5°	8.0
85°	5.2
87.5°	2.4
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	11.15	12.51	11.51	12.83	13.14	11.15	12.51	11.51	12.83	13.14
	3H	12.97	14.19	13.35	14.52	14.89	12.97	14.19	13.35	14.52	14.89
	4H	13.70	14.85	14.10	15.20	15.58	13.70	14.85	14.10	15.20	15.58
	6H	14.28	15.33	14.69	15.70	16.09	14.28	15.33	14.69	15.70	16.09
	8H	14.49	15.49	14.91	15.88	16.28	14.49	15.49	14.91	15.88	16.28
	12H	14.64	15.60	15.07	15.98	16.41	14.64	15.60	15.07	15.98	16.41
4H	2H	11.74	12.89	12.14	13.24	13.62	11.74	12.89	12.14	13.24	13.62
	3H	13.79	14.74	14.20	15.14	15.54	13.79	14.74	14.20	15.14	15.54
	4H	14.66	15.51	15.09	15.93	16.37	14.66	15.51	15.09	15.93	16.37
	6H	15.37	16.11	15.83	16.56	17.02	15.37	16.11	15.83	16.56	17.02
	8H	15.64	16.33	16.10	16.78	17.25	15.64	16.33	16.10	16.78	17.25
	12H	15.84	16.46	16.33	16.94	17.41	15.84	16.46	16.33	16.94	17.41
8H	4H	14.97	15.66	15.44	16.11	16.58	14.97	15.66	15.44	16.11	16.58
	6H	15.83	16.40	16.33	16.90	17.38	15.83	16.40	16.33	16.90	17.38
	8H	16.19	16.70	16.71	17.21	17.70	16.19	16.70	16.71	17.21	17.70
	12H	16.49	16.94	17.01	17.44	18.01	16.49	16.94	17.01	17.44	18.01
12H	4H	15.00	15.62	15.49	16.10	16.57	15.00	15.62	15.49	16.10	16.57
	6H	15.90	16.41	16.42	16.92	17.41	15.90	16.41	16.42	16.92	17.41
	8H	16.32	16.77	16.84	17.27	17.84	16.32	16.77	16.84	17.27	17.84