

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: P865456

Luminaire Tested: PRLX-2001-S-930-05L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-930-05L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

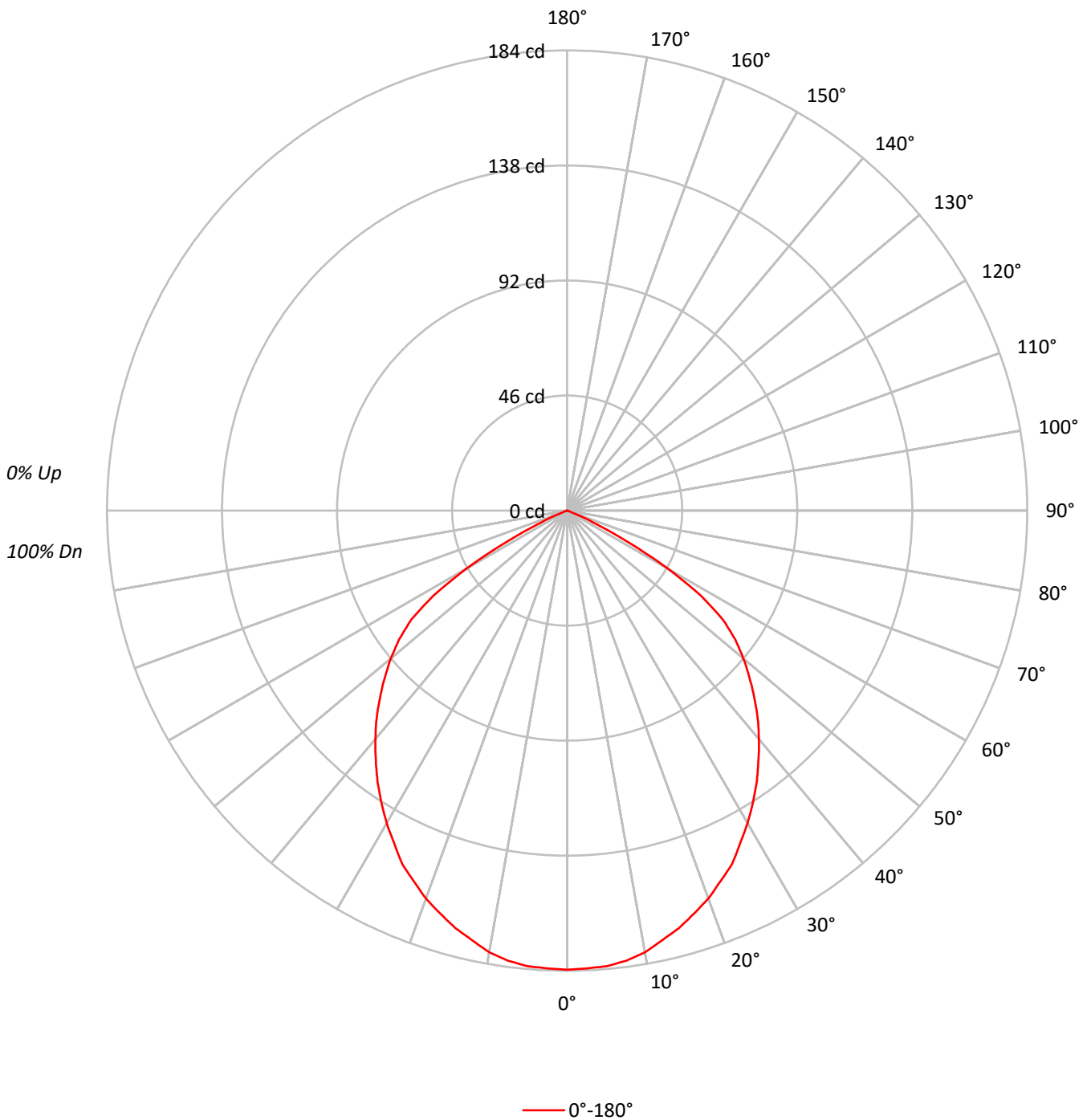
Lumens per Lamp: N/A
Luminaire Lumens: 385.2 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.29
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	108	104	102	109	106	103	100	101	99	97		98	96	94		94	93	91	89
2	103	97	91	87	101	95	90	86	91	87	84		88	85	82		85	83	80	78
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77	73	70	68
4	88	78	70	64	86	77	70	64	74	68	63		72	67	62		70	65	62	60
5	82	70	62	56	80	69	62	56	67	61	56		65	60	55		64	59	55	53
6	76	64	56	50	74	63	55	50	61	54	49		59	53	49		58	53	49	47
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53	48	43	42
8	66	53	45	40	64	52	45	40	51	44	40		50	44	39		49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2995
5°	2993
10°	2970
15°	2918
20°	2866
25°	2807
30°	2718
35°	2632
40°	2540
45°	2443
50°	2334
55°	2161
60°	1523
65°	502
70°	43
75°	25
80°	38
85°	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2443 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.3	4.5
10°-20°	48.7	12.6
20°-30°	71.6	18.6
30°-40°	82.6	21.4
40°-50°	81.7	21.2
50°-60°	65.5	17.0
60°-70°	17.0	4.4
70°-80°	0.5	0.1
80°-90°	0.4	0.1
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°	137.6	35.7
0°-40°	220.2	57.2
0°-60°	367.3	95.4
0°-90°	385.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	385.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	184	
5°	183	17
15°	173	49
25°	156	72
35°	132	83
45°	106	82
55°	76	65
65°	13	17
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	183.6
2.5°	183.2
5°	182.8
7.5°	181.5
10°	179.3
12.5°	175.9
15°	172.8
17.5°	168.9
20°	165.1
22.5°	160.3
25°	156.0
27.5°	149.9
30°	144.3
32.5°	138.3
35°	132.2
37.5°	125.7
40°	119.3
42.5°	112.8
45°	105.9
47.5°	98.9
50°	92.0
52.5°	84.7
55°	76.0
57.5°	63.5
60°	46.7
62.5°	28.1
65°	13.0
67.5°	4.8
70°	0.9
72.5°	0.4
75°	0.4
77.5°	0.4
80°	0.4
82.5°	0.4
85°	0.4
87.5°	0.4
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	14.59	16.04	14.95	16.35	16.67	14.59	16.04	14.95	16.35	16.67
	3H	14.49	15.77	14.87	16.09	16.46	14.49	15.77	14.87	16.09	16.46
	4H	14.42	15.61	14.82	15.96	16.34	14.42	15.61	14.82	15.96	16.34
	6H	14.35	15.44	14.77	15.81	16.21	14.35	15.44	14.77	15.81	16.21
	8H	14.32	15.35	14.74	15.74	16.14	14.32	15.35	14.74	15.74	16.14
	12H	14.28	15.27	14.71	15.65	16.08	14.28	15.27	14.71	15.65	16.08
4H	2H	14.49	15.68	14.89	16.03	16.41	14.49	15.68	14.89	16.03	16.41
	3H	14.40	15.35	14.81	15.76	16.16	14.40	15.35	14.81	15.76	16.16
	4H	14.32	15.17	14.75	15.59	16.03	14.32	15.17	14.75	15.59	16.03
	6H	14.25	14.98	14.71	15.43	15.89	14.25	14.98	14.71	15.43	15.89
	8H	14.20	14.88	14.66	15.33	15.80	14.20	14.88	14.66	15.33	15.80
	12H	14.16	14.76	14.64	15.25	15.72	14.16	14.76	14.64	15.25	15.72
8H	4H	14.20	14.88	14.66	15.33	15.80	14.20	14.88	14.66	15.33	15.80
	6H	14.10	14.66	14.60	15.16	15.64	14.10	14.66	14.60	15.16	15.64
	8H	14.04	14.55	14.56	15.06	15.55	14.04	14.55	14.56	15.06	15.55
	12H	14.00	14.45	14.51	14.94	15.51	14.00	14.45	14.51	14.94	15.51
12H	4H	14.15	14.76	14.64	15.24	15.72	14.15	14.76	14.64	15.24	15.72
	6H	14.04	14.55	14.56	15.06	15.55	14.04	14.55	14.56	15.06	15.55
	8H	13.99	14.45	14.51	14.94	15.51	13.99	14.45	14.51	14.94	15.51