

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: P865479

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-930-20L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

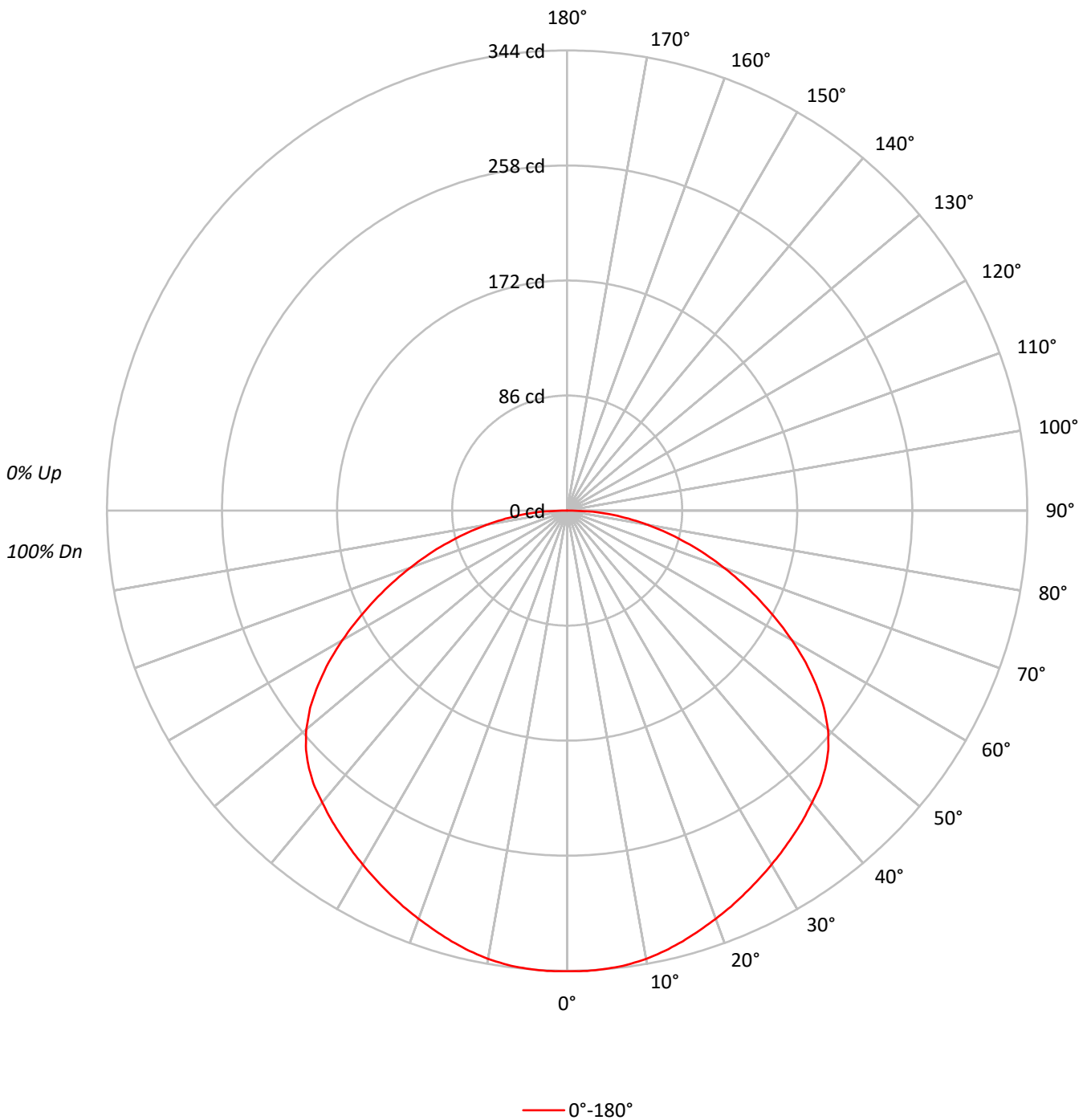
Lumens per Lamp: N/A
Luminaire Lumens: 1160.3 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.5
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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

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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	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	38	33	45	38	33	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5616
5°	5629
10°	5636
15°	5630
20°	5636
25°	5676
30°	5755
35°	5884
40°	6064
45°	6295
50°	6460
55°	6463
60°	6332
65°	6129
70°	5942
75°	5785
80°	5730
85°	5988

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 7179 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.7	2.8
10°-20°	94.2	8.1
20°-30°	145.7	12.6
30°-40°	185.3	16.0
40°-50°	210.2	18.1
50°-60°	202.5	17.5
60°-70°	157.5	13.6
70°-80°	97.4	8.4
80°-90°	34.8	3.0
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°	272.6	23.5
0°-40°	457.9	39.5
0°-60°	870.6	75.0
0°-90°	1160.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1160.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	344	
5°	344	33
15°	333	94
25°	315	146
35°	296	185
45°	273	210
55°	227	202
65°	159	157
75°	92	97
85°	32	35
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	344.3
2.5°	344.5
5°	343.8
7.5°	342.6
10°	340.3
12.5°	337.2
15°	333.4
17.5°	329.1
20°	324.7
22.5°	320.3
25°	315.4
27.5°	310.6
30°	305.6
32.5°	300.6
35°	295.5
37.5°	290.4
40°	284.8
42.5°	279.6
45°	272.9
47.5°	264.9
50°	254.6
52.5°	242.1
55°	227.3
57.5°	211.4
60°	194.1
62.5°	176.6
65°	158.8
67.5°	141.7
70°	124.6
72.5°	108.4
75°	91.8
77.5°	76.2
80°	61.0
82.5°	46.3
85°	32.0
87.5°	19.2
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	18.88	20.59	19.24	20.90	21.21	18.88	20.59	19.24	20.90	21.21
	3H	20.77	22.32	21.14	22.64	23.00	20.77	22.32	21.14	22.64	23.00
	4H	21.53	23.00	21.93	23.35	23.72	21.53	23.00	21.93	23.35	23.72
	6H	22.17	23.53	22.58	23.90	24.29	22.17	23.53	22.58	23.90	24.29
	8H	22.42	23.72	22.84	24.11	24.51	22.42	23.72	22.84	24.11	24.51
	12H	22.62	23.87	23.05	24.25	24.68	22.62	23.87	23.05	24.25	24.68
4H	2H	19.53	21.00	19.93	21.35	21.72	19.53	21.00	19.93	21.35	21.72
	3H	21.66	22.90	22.07	23.30	23.70	21.66	22.90	22.07	23.30	23.70
	4H	22.57	23.70	23.00	24.11	24.54	22.57	23.70	23.00	24.11	24.54
	6H	23.36	24.35	23.81	24.79	25.24	23.36	24.35	23.81	24.79	25.24
	8H	23.67	24.60	24.13	25.04	25.51	23.67	24.60	24.13	25.04	25.51
	12H	23.94	24.78	24.42	25.26	25.72	23.94	24.78	24.42	25.26	25.72
8H	4H	22.95	23.88	23.40	24.32	24.78	22.95	23.88	23.40	24.32	24.78
	6H	23.89	24.67	24.38	25.15	25.63	23.89	24.67	24.38	25.15	25.63
	8H	24.30	25.00	24.81	25.51	25.99	24.30	25.00	24.81	25.51	25.99
	12H	24.69	25.31	25.19	25.80	26.35	24.69	25.31	25.19	25.80	26.35
12H	4H	23.00	23.84	23.48	24.32	24.78	23.00	23.84	23.48	24.32	24.78
	6H	23.98	24.69	24.49	25.19	25.67	23.98	24.69	24.49	25.19	25.67
	8H	24.47	25.09	24.98	25.58	26.14	24.47	25.09	24.98	25.58	26.14