

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: P865643

Luminaire Tested: PRLX-2002-S-930-20L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-930-20L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

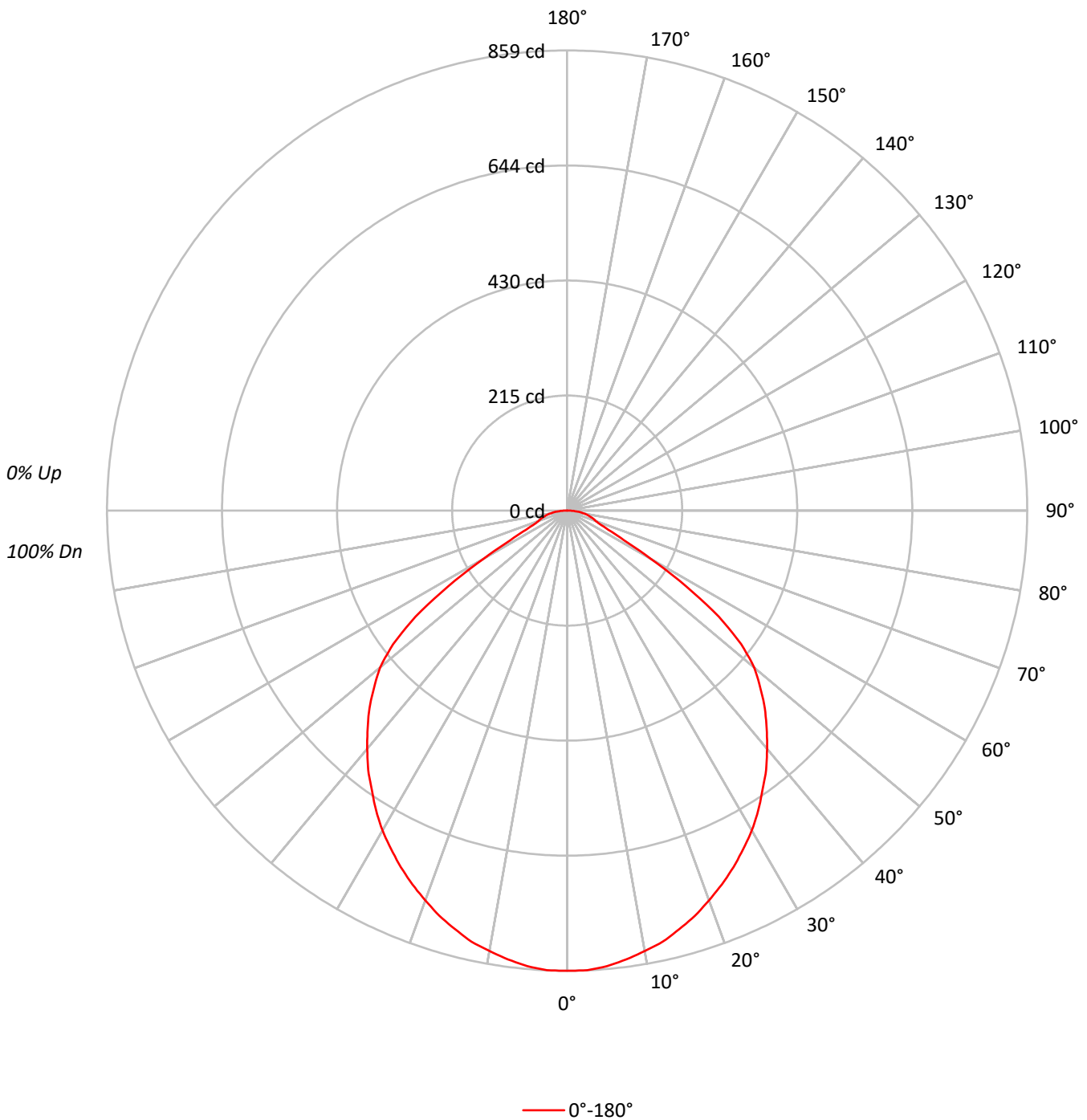
Lumens per Lamp: N/A
Luminaire Lumens: 1906.9 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.333 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	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	74	62	54	48	73	61	54	48	60	53	47	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16136
5°	16099
10°	15923
15°	15731
20°	15478
25°	15223
30°	14958
35°	14584
40°	14239
45°	13867
50°	13335
55°	11321
60°	6751
65°	3765
70°	3131
75°	3259
80°	3548
85°	3729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13867 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	4.2
10°-20°	228.1	12.0
20°-30°	338.3	17.7
30°-40°	398.4	20.9
40°-50°	401.6	21.1
50°-60°	297.6	15.6
60°-70°	95.6	5.0
70°-80°	47.9	2.5
80°-90°	18.6	1.0
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°	647.3	33.9
0°-40°	1045.7	54.8
0°-60°	1744.9	91.5
0°-90°	1906.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1906.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	859	
5°	854	81
15°	809	228
25°	734	338
35°	636	398
45°	522	402
55°	346	298
65°	85	96
75°	45	48
85°	17	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	859.0
2.5°	859.0
5°	853.8
7.5°	845.1
10°	834.8
12.5°	824.4
15°	808.9
17.5°	793.3
20°	774.3
22.5°	755.3
25°	734.5
27.5°	712.1
30°	689.6
32.5°	663.7
35°	636.0
37.5°	610.1
40°	580.7
42.5°	551.3
45°	522.0
47.5°	489.1
50°	456.3
52.5°	409.6
55°	345.7
57.5°	264.4
60°	179.7
62.5°	119.3
65°	84.7
67.5°	65.7
70°	57.0
72.5°	51.8
75°	44.9
77.5°	39.8
80°	32.8
82.5°	25.9
85°	17.3
87.5°	8.6
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	19.35	20.84	19.72	21.16	21.47	19.35	20.84	19.72	21.16	21.47
	3H	19.60	20.92	19.97	21.25	21.61	19.60	20.92	19.97	21.25	21.61
	4H	19.76	20.99	20.16	21.34	21.72	19.76	20.99	20.16	21.34	21.72
	6H	19.95	21.09	20.36	21.45	21.85	19.95	21.09	20.36	21.45	21.85
	8H	20.04	21.12	20.46	21.51	21.91	20.04	21.12	20.46	21.51	21.91
	12H	20.10	21.14	20.54	21.52	21.95	20.10	21.14	20.54	21.52	21.95
4H	2H	19.35	20.58	19.75	20.93	21.31	19.35	20.58	19.75	20.93	21.31
	3H	19.73	20.74	20.14	21.14	21.55	19.73	20.74	20.14	21.14	21.55
	4H	19.99	20.90	20.43	21.31	21.75	19.99	20.90	20.43	21.31	21.75
	6H	20.32	21.11	20.78	21.55	22.01	20.32	21.11	20.78	21.55	22.01
	8H	20.47	21.20	20.93	21.65	22.11	20.47	21.20	20.93	21.65	22.11
	12H	20.59	21.25	21.08	21.73	22.20	20.59	21.25	21.08	21.73	22.20
8H	4H	20.06	20.80	20.53	21.24	21.71	20.06	20.80	20.53	21.24	21.71
	6H	20.49	21.10	20.99	21.60	22.07	20.49	21.10	20.99	21.60	22.07
	8H	20.71	21.27	21.23	21.78	22.27	20.71	21.27	21.23	21.78	22.27
	12H	20.93	21.42	21.44	21.91	22.48	20.93	21.42	21.44	21.91	22.48
12H	4H	20.06	20.72	20.55	21.20	21.67	20.06	20.72	20.55	21.20	21.67
	6H	20.51	21.07	21.03	21.58	22.07	20.51	21.07	21.03	21.58	22.07
	8H	20.79	21.28	21.30	21.78	22.34	20.79	21.28	21.30	21.78	22.34