

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: P865763

Luminaire Tested: PRLX-2004-S-927-20L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865763
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-927-20L-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 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

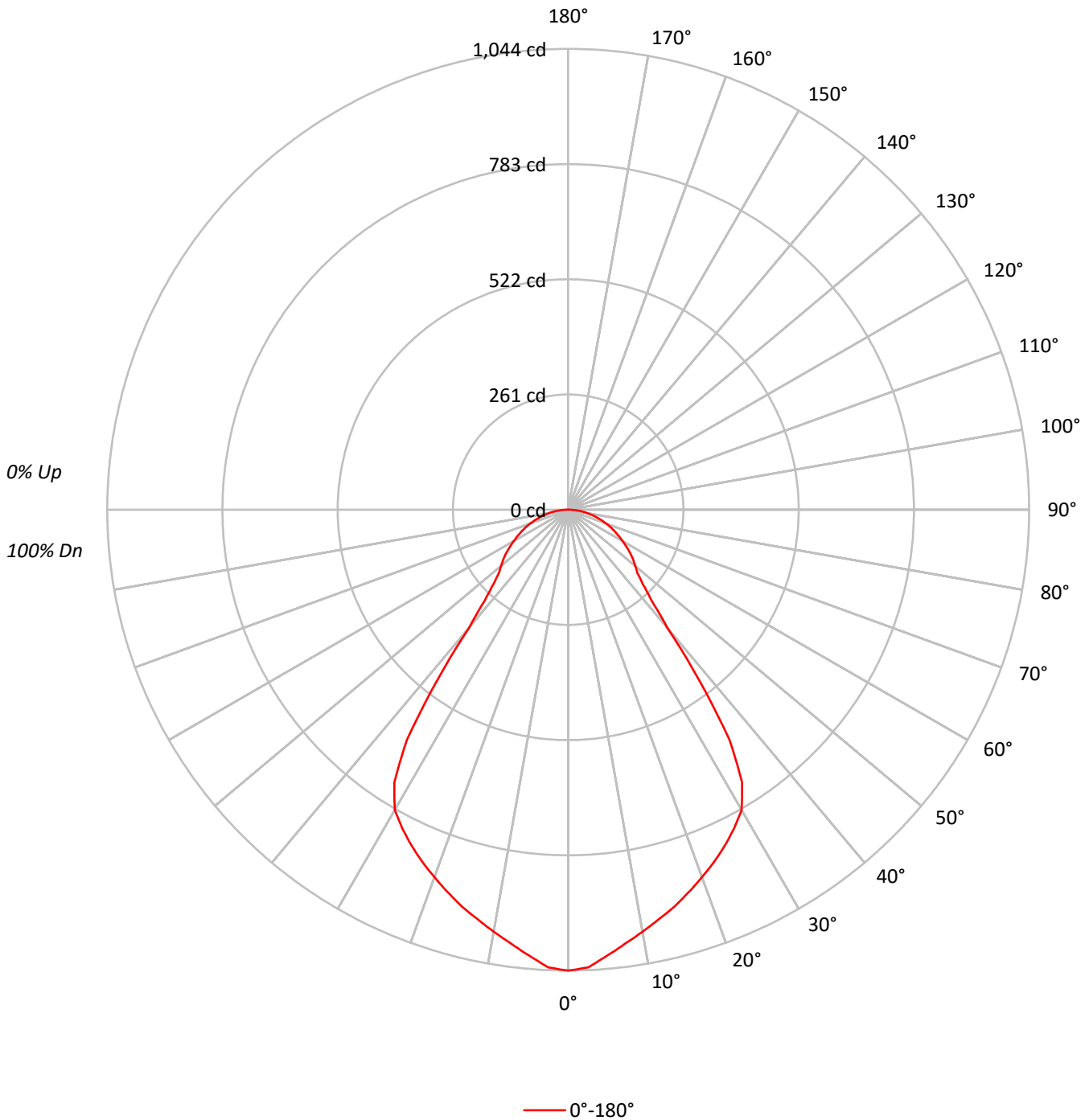
Lumens per Lamp: N/A
Luminaire Lumens: 1674.2 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.07
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	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°	17031
5°	16600
10°	16076
15°	15715
20°	15376
25°	15108
30°	14788
35°	12673
40°	7422
45°	5534
50°	5032
55°	4865
60°	4642
65°	4504
70°	4349
75°	4235
80°	4058
85°	3892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5534 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	5.7
10°-20°	262.2	15.7
20°-30°	386.6	23.1
30°-40°	375.0	22.4
40°-50°	193.2	11.5
50°-60°	152.8	9.1
60°-70°	115.5	6.9
70°-80°	70.5	4.2
80°-90°	22.9	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°	744.3	44.5
0°-40°	1119.3	66.9
0°-60°	1465.3	87.5
0°-90°	1674.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1674.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1044	
5°	1014	95
15°	931	262
25°	840	387
35°	636	375
45°	240	193
55°	171	153
65°	117	116
75°	67	70
85°	21	23
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1044.2
2.5°	1037.8
5°	1013.9
7.5°	991.5
10°	970.7
12.5°	949.9
15°	930.7
17.5°	908.3
20°	885.9
22.5°	863.5
25°	839.5
27.5°	814.0
30°	785.2
32.5°	732.4
35°	636.5
37.5°	487.7
40°	348.6
42.5°	279.8
45°	239.9
47.5°	212.7
50°	198.3
52.5°	185.5
55°	171.1
57.5°	156.7
60°	142.3
62.5°	129.5
65°	116.7
67.5°	103.9
70°	91.2
72.5°	78.4
75°	67.2
77.5°	54.4
80°	43.2
82.5°	32.0
85°	20.8
87.5°	9.6
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	15.96	17.33	16.33	17.64	17.95	15.96	17.33	16.33	17.64	17.95
	3H	17.79	19.01	18.16	19.34	19.70	17.79	19.01	18.16	19.34	19.70
	4H	18.52	19.66	18.92	20.01	20.39	18.52	19.66	18.92	20.01	20.39
	6H	19.09	20.15	19.50	20.51	20.91	19.09	20.15	19.50	20.51	20.91
	8H	19.30	20.30	19.73	20.69	21.10	19.30	20.30	19.73	20.69	21.10
	12H	19.45	20.41	19.88	20.79	21.22	19.45	20.41	19.88	20.79	21.22
4H	2H	16.56	17.70	16.96	18.05	18.43	16.56	17.70	16.96	18.05	18.43
	3H	18.60	19.55	19.01	19.96	20.36	18.60	19.55	19.01	19.96	20.36
	4H	19.47	20.33	19.91	20.75	21.19	19.47	20.33	19.91	20.75	21.19
	6H	20.19	20.93	20.65	21.37	21.84	20.19	20.93	20.65	21.37	21.84
	8H	20.45	21.15	20.92	21.59	22.06	20.45	21.15	20.92	21.59	22.06
	12H	20.66	21.27	21.14	21.75	22.23	20.66	21.27	21.14	21.75	22.23
8H	4H	19.78	20.48	20.25	20.93	21.40	19.78	20.48	20.25	20.93	21.40
	6H	20.65	21.22	21.15	21.71	22.19	20.65	21.22	21.15	21.71	22.19
	8H	21.00	21.52	21.52	22.03	22.52	21.00	21.52	21.52	22.03	22.52
	12H	21.31	21.76	21.82	22.25	22.82	21.31	21.76	21.82	22.25	22.82
12H	4H	19.82	20.43	20.30	20.91	21.39	19.82	20.43	20.30	20.91	21.39
	6H	20.71	21.23	21.23	21.74	22.23	20.71	21.23	21.23	21.74	22.23
	8H	21.14	21.59	21.65	22.08	22.65	21.14	21.59	21.65	22.08	22.65