

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: P865603

Luminaire Tested: PRLX-2002-S-927-20L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865603
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: PrentaLux
Catalog Number: PRLX-2002-S-927-20L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

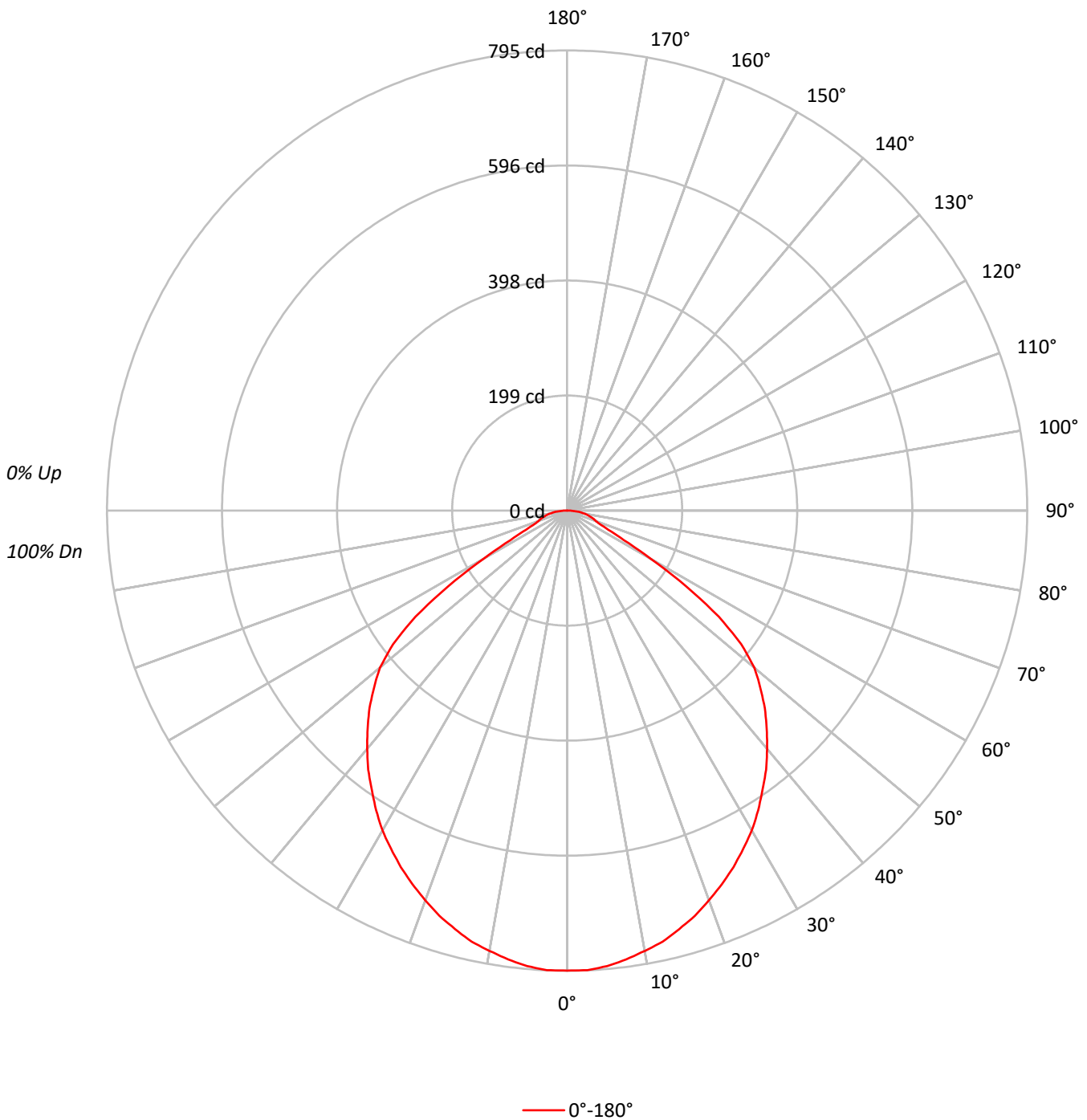
Lumens per Lamp: N/A
Luminaire Lumens: 1764.4 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (A_{in}): 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	34	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°	14930
5°	14896
10°	14733
15°	14554
20°	14321
25°	14086
30°	13841
35°	13495
40°	13175
45°	12828
50°	12338
55°	10473
60°	6248
65°	3485
70°	2900
75°	3019
80°	3289
85°	3448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12828 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	4.2
10°-20°	211.0	12.0
20°-30°	313.0	17.7
30°-40°	368.6	20.9
40°-50°	371.6	21.1
50°-60°	275.4	15.6
60°-70°	88.4	5.0
70°-80°	44.3	2.5
80°-90°	17.2	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°	598.9	33.9
0°-40°	967.5	54.8
0°-60°	1614.4	91.5
0°-90°	1764.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1764.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	795	
5°	790	75
15°	748	211
25°	680	313
35°	588	369
45°	483	372
55°	320	275
65°	78	88
75°	42	44
85°	16	17
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	794.8
2.5°	794.8
5°	790.0
7.5°	782.0
10°	772.4
12.5°	762.8
15°	748.4
17.5°	734.0
20°	716.4
22.5°	698.8
25°	679.6
27.5°	658.8
30°	638.1
32.5°	614.1
35°	588.5
37.5°	564.5
40°	537.3
42.5°	510.1
45°	482.9
47.5°	452.6
50°	422.2
52.5°	379.0
55°	319.8
57.5°	244.7
60°	166.3
62.5°	110.3
65°	78.4
67.5°	60.8
70°	52.8
72.5°	48.0
75°	41.6
77.5°	36.8
80°	30.4
82.5°	24.0
85°	16.0
87.5°	8.0
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	19.08	20.57	19.45	20.89	21.20	19.08	20.57	19.45	20.89	21.20
	3H	19.33	20.65	19.71	20.98	21.34	19.33	20.65	19.71	20.98	21.34
	4H	19.49	20.72	19.89	21.07	21.45	19.49	20.72	19.89	21.07	21.45
	6H	19.68	20.82	20.09	21.19	21.58	19.68	20.82	20.09	21.19	21.58
	8H	19.77	20.85	20.20	21.24	21.64	19.77	20.85	20.20	21.24	21.64
	12H	19.84	20.87	20.27	21.25	21.68	19.84	20.87	20.27	21.25	21.68
4H	2H	19.08	20.32	19.48	20.67	21.05	19.08	20.32	19.48	20.67	21.05
	3H	19.47	20.48	19.88	20.88	21.28	19.47	20.48	19.88	20.88	21.28
	4H	19.73	20.63	20.16	21.05	21.49	19.73	20.63	20.16	21.05	21.49
	6H	20.05	20.84	20.51	21.28	21.74	20.05	20.84	20.51	21.28	21.74
	8H	20.20	20.93	20.66	21.38	21.85	20.20	20.93	20.66	21.38	21.85
	12H	20.33	20.98	20.81	21.46	21.94	20.33	20.98	20.81	21.46	21.94
8H	4H	19.79	20.53	20.26	20.97	21.44	19.79	20.53	20.26	20.97	21.44
	6H	20.23	20.84	20.73	21.33	21.81	20.23	20.84	20.73	21.33	21.81
	8H	20.45	21.00	20.96	21.51	22.00	20.45	21.00	20.96	21.51	22.00
	12H	20.66	21.15	21.17	21.65	22.21	20.66	21.15	21.17	21.65	22.21
12H	4H	19.79	20.45	20.28	20.93	21.40	19.79	20.45	20.28	20.93	21.40
	6H	20.25	20.80	20.76	21.31	21.80	20.25	20.80	20.76	21.31	21.80
	8H	20.52	21.02	21.03	21.51	22.08	20.52	21.02	21.03	21.51	22.08