

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: P865602

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-927-20L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

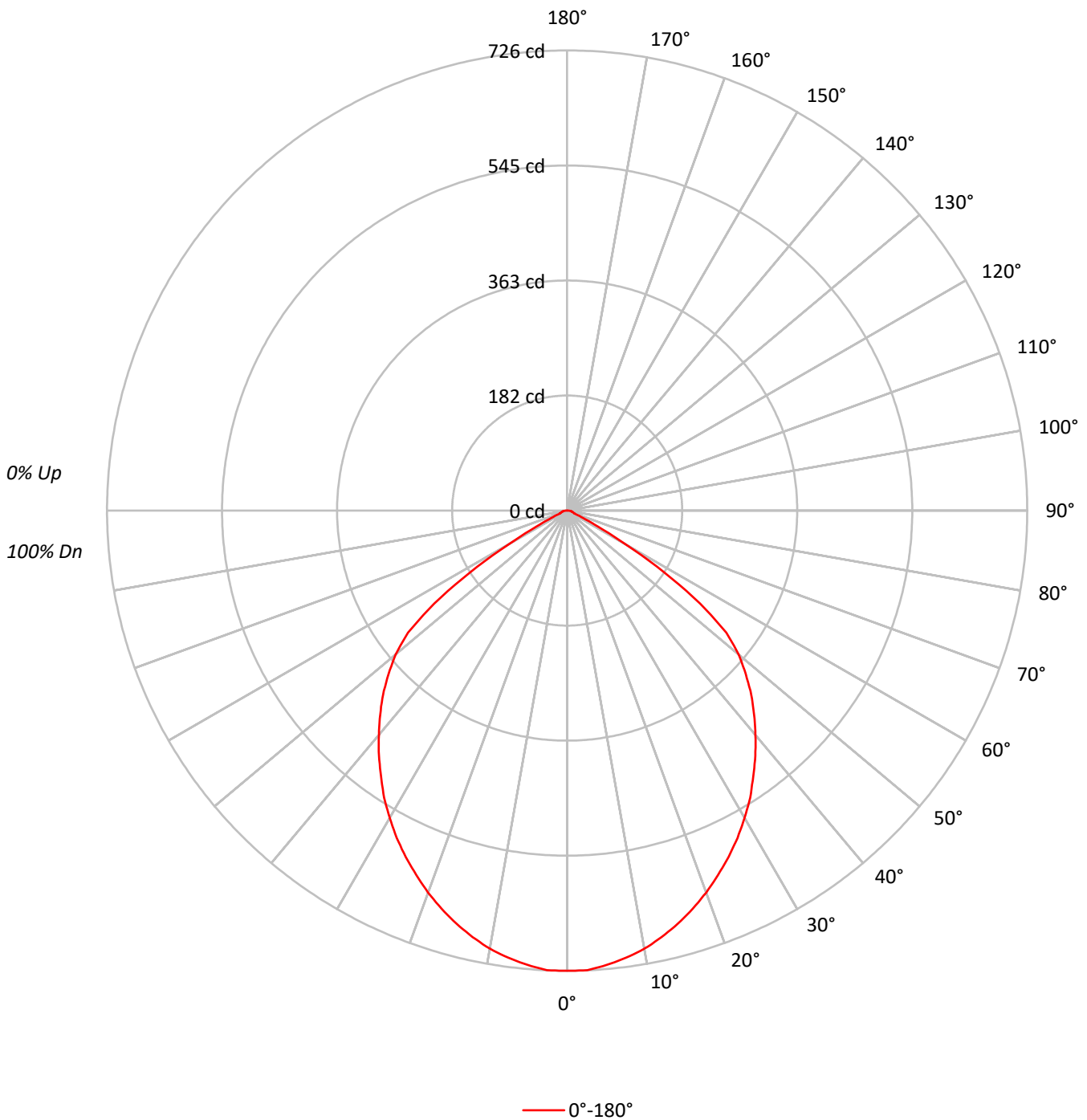
Lumens per Lamp: N/A
Luminaire Lumens: 1441.8 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	65	60	56	54
6	76	65	57	51	75	64	56	51	62	55	51	61	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13637
5°	13569
10°	13390
15°	13123
20°	12819
25°	12496
30°	12140
35°	11734
40°	11334
45°	10918
50°	10327
55°	8381
60°	3963
65°	1209
70°	615
75°	697
80°	692
85°	1035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10918 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	4.7
10°-20°	190.1	13.2
20°-30°	277.5	19.2
30°-40°	320.4	22.2
40°-50°	315.9	21.9
50°-60°	218.6	15.2
60°-70°	37.3	2.6
70°-80°	9.5	0.7
80°-90°	4.4	0.3
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°	535.7	37.2
0°-40°	856.1	59.4
0°-60°	1390.6	96.4
0°-90°	1441.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1441.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	726	
5°	720	68
15°	675	190
25°	603	278
35°	512	320
45°	411	316
55°	256	219
65°	27	37
75°	10	10
85°	5	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	726.0
2.5°	726.0
5°	719.6
7.5°	711.6
10°	702.0
12.5°	689.2
15°	674.8
17.5°	658.8
20°	641.3
22.5°	622.1
25°	602.9
27.5°	582.1
30°	559.7
32.5°	537.3
35°	511.7
37.5°	487.7
40°	462.2
42.5°	436.6
45°	411.0
47.5°	382.2
50°	353.4
52.5°	316.6
55°	255.9
57.5°	182.3
60°	105.5
62.5°	54.4
65°	27.2
67.5°	12.8
70°	11.2
72.5°	9.6
75°	9.6
77.5°	8.0
80°	6.4
82.5°	6.4
85°	4.8
87.5°	1.6
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	17.77	19.19	18.14	19.51	19.82	17.77	19.19	18.14	19.51	19.82
	3H	17.69	18.93	18.06	19.26	19.63	17.69	18.93	18.06	19.26	19.63
	4H	17.64	18.80	18.04	19.15	19.53	17.64	18.80	18.04	19.15	19.53
	6H	17.59	18.66	18.01	19.03	19.42	17.59	18.66	18.01	19.03	19.42
	8H	17.57	18.58	18.00	18.97	19.38	17.57	18.58	18.00	18.97	19.38
	12H	17.55	18.52	17.99	18.90	19.33	17.55	18.52	17.99	18.90	19.33
4H	2H	17.63	18.79	18.03	19.14	19.53	17.63	18.79	18.03	19.14	19.53
	3H	17.56	18.49	17.97	18.90	19.30	17.56	18.49	17.97	18.90	19.30
	4H	17.51	18.35	17.95	18.77	19.21	17.51	18.35	17.95	18.77	19.21
	6H	17.48	18.20	17.95	18.65	19.11	17.48	18.20	17.95	18.65	19.11
	8H	17.46	18.13	17.93	18.58	19.05	17.46	18.13	17.93	18.58	19.05
	12H	17.46	18.05	17.94	18.53	19.01	17.46	18.05	17.94	18.53	19.01
8H	4H	17.41	18.08	17.87	18.52	18.99	17.41	18.08	17.87	18.52	18.99
	6H	17.37	17.92	17.87	18.42	18.90	17.37	17.92	17.87	18.42	18.90
	8H	17.35	17.86	17.87	18.37	18.86	17.35	17.86	17.87	18.37	18.86
	12H	17.37	17.82	17.88	18.32	18.89	17.37	17.82	17.88	18.32	18.89
12H	4H	17.37	17.96	17.85	18.44	18.92	17.37	17.96	17.85	18.44	18.92
	6H	17.31	17.82	17.83	18.33	18.82	17.31	17.82	17.83	18.33	18.82
	8H	17.33	17.78	17.84	18.28	18.84	17.33	17.78	17.84	18.28	18.84