

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: P865598

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-927-20L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

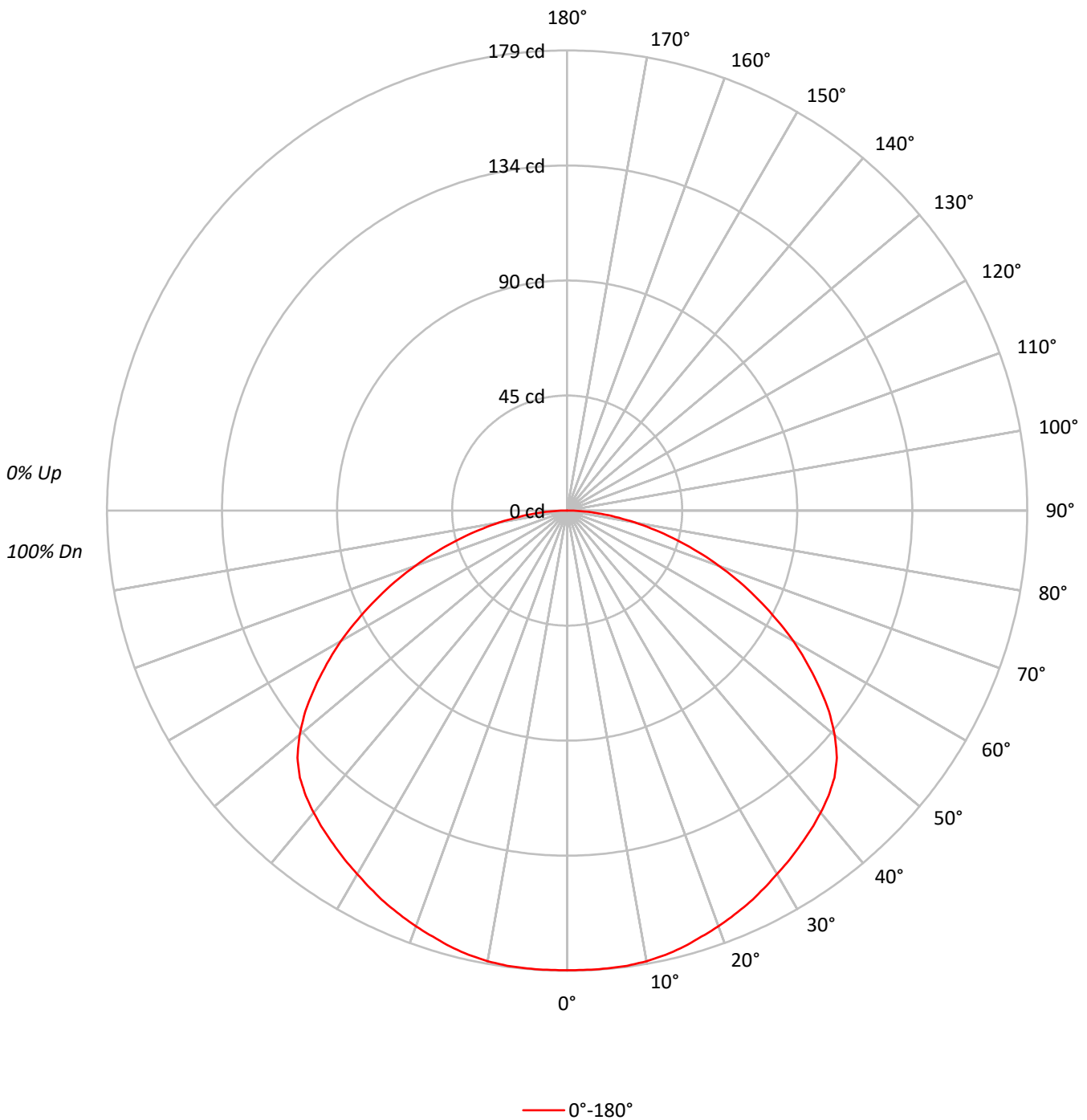
Lumens per Lamp: N/A
Luminaire Lumens: 605.5 lumens
Efficiency: N/A
Efficacy: 27.8 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.53
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3359
5°	3371
10°	3395
15°	3415
20°	3440
25°	3484
30°	3542
35°	3635
40°	3762
45°	3905
50°	3971
55°	3923
60°	3821
65°	3654
70°	3449
75°	3193
80°	2888
85°	2629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 3971 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.0	2.8
10°-20°	49.6	8.2
20°-30°	77.6	12.8
30°-40°	99.4	16.4
40°-50°	113.0	18.7
50°-60°	106.9	17.7
60°-70°	81.4	13.4
70°-80°	46.8	7.7
80°-90°	13.8	2.3
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°	144.3	23.8
0°-40°	243.7	40.2
0°-60°	463.5	76.6
0°-90°	605.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	605.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	179	
5°	179	17
15°	176	50
25°	168	78
35°	158	99
45°	147	113
55°	120	107
65°	82	81
75°	44	47
85°	12	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	178.8
2.5°	178.8
5°	178.8
7.5°	178.6
10°	178.0
12.5°	177.0
15°	175.6
17.5°	173.8
20°	172.1
22.5°	170.1
25°	168.1
27.5°	165.7
30°	163.3
32.5°	161.0
35°	158.5
37.5°	156.1
40°	153.4
42.5°	150.5
45°	147.0
47.5°	142.3
50°	135.9
52.5°	128.4
55°	119.8
57.5°	110.8
60°	101.7
62.5°	91.9
65°	82.2
67.5°	72.6
70°	62.8
72.5°	53.4
75°	44.0
77.5°	35.2
80°	26.7
82.5°	18.9
85°	12.2
87.5°	6.2
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	17.15	18.85	17.52	19.17	19.48	17.15	18.85	17.52	19.17	19.48
	3H	18.96	20.50	19.33	20.82	21.18	18.96	20.50	19.33	20.82	21.18
	4H	19.63	21.08	20.03	21.43	21.80	19.63	21.08	20.03	21.43	21.80
	6H	20.13	21.48	20.54	21.84	22.23	20.13	21.48	20.54	21.84	22.23
	8H	20.30	21.59	20.72	21.98	22.37	20.30	21.59	20.72	21.98	22.37
	12H	20.42	21.66	20.85	22.04	22.47	20.42	21.66	20.85	22.04	22.47
4H	2H	17.80	19.25	18.19	19.60	19.97	17.80	19.25	18.19	19.60	19.97
	3H	19.82	21.04	20.23	21.44	21.84	19.82	21.04	20.23	21.44	21.84
	4H	20.62	21.73	21.05	22.14	22.58	20.62	21.73	21.05	22.14	22.58
	6H	21.26	22.23	21.71	22.67	23.12	21.26	22.23	21.71	22.67	23.12
	8H	21.47	22.38	21.93	22.82	23.29	21.47	22.38	21.93	22.82	23.29
	12H	21.64	22.46	22.12	22.94	23.40	21.64	22.46	22.12	22.94	23.40
8H	4H	20.95	21.86	21.40	22.30	22.76	20.95	21.86	21.40	22.30	22.76
	6H	21.70	22.46	22.19	22.95	23.42	21.70	22.46	22.19	22.95	23.42
	8H	21.99	22.68	22.50	23.18	23.66	21.99	22.68	22.50	23.18	23.66
	12H	22.24	22.85	22.75	23.34	23.90	22.24	22.85	22.75	23.34	23.90
12H	4H	20.99	21.81	21.46	22.28	22.75	20.99	21.81	21.46	22.28	22.75
	6H	21.76	22.45	22.27	22.95	23.44	21.76	22.45	22.27	22.95	23.44
	8H	22.12	22.72	22.62	23.21	23.77	22.12	22.72	22.62	23.21	23.77