

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: P865426

Luminaire Tested: PRLX-2001-S-927-10L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-927-10L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

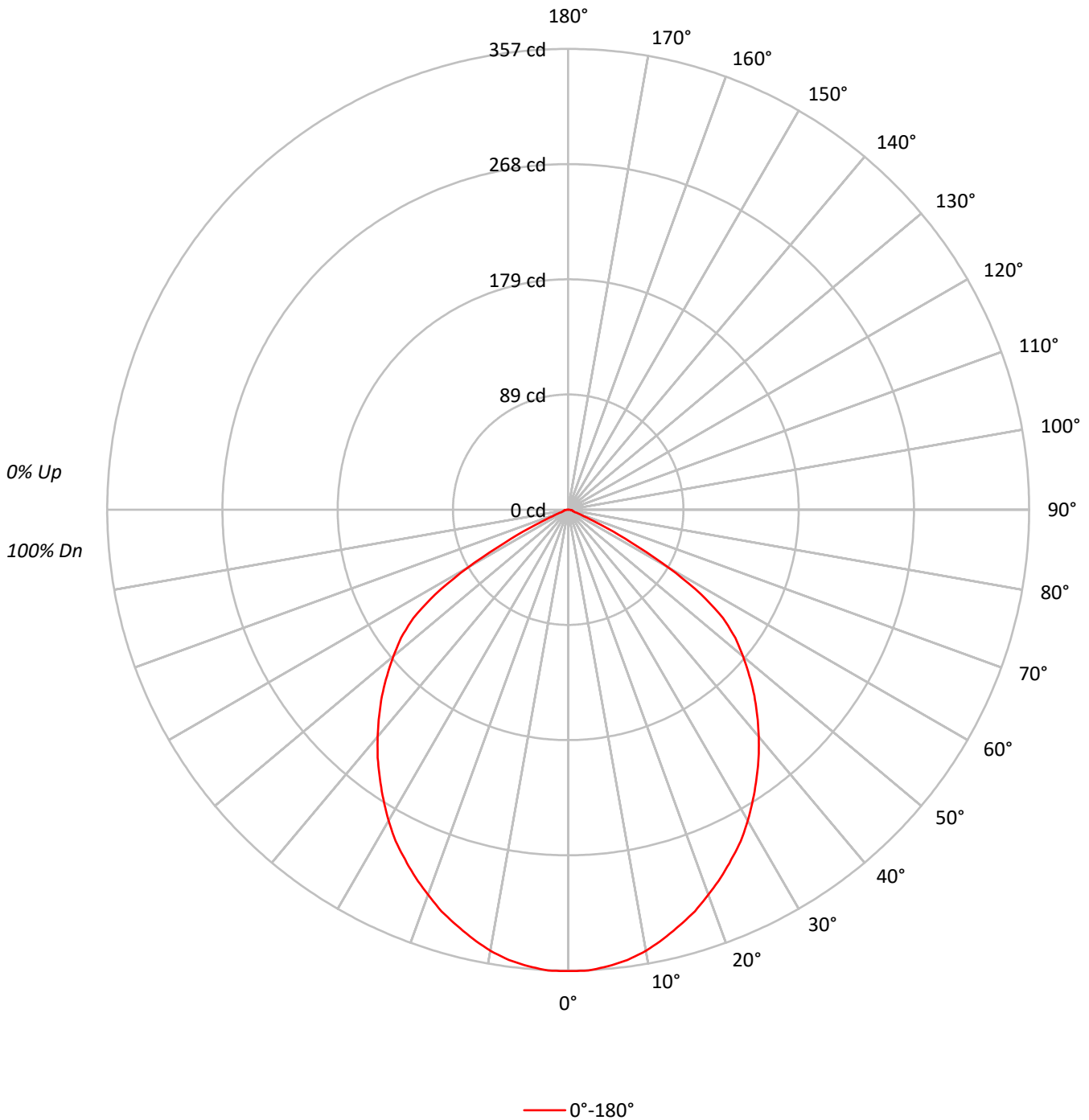
Lumens per Lamp: N/A
Luminaire Lumens: 748.6 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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

TEST NUMBER: P865426

CATALOG NUMBER: PRLX-2001-S-927-10L-L-U-S-X-X-GREY-X

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	104	101	109	105	102	100	101	99	96		97	95	94		94	92	91	89
2	103	96	91	86	101	94	89	85	91	87	83		88	84	81		85	82	80	78
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		77	73	70	68
4	88	77	70	64	86	76	69	64	74	68	63		72	66	62		70	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63	58	54	52
6	75	63	55	50	74	62	55	49	61	54	49		59	53	49		58	52	48	46
7	70	58	50	44	68	57	49	44	56	49	44		54	48	43		53	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39		50	44	39		49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	32		43	37	32		42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5829
5°	5812
10°	5747
15°	5630
20°	5509
25°	5381
30°	5239
35°	5063
40°	4886
45°	4703
50°	4484
55°	4160
60°	2949
65°	1081
70°	267
75°	252
80°	301
85°	299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4703 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.6	4.5
10°-20°	94.0	12.6
20°-30°	137.7	18.4
30°-40°	159.1	21.3
40°-50°	157.0	21.0
50°-60°	126.1	16.8
60°-70°	35.2	4.7
70°-80°	4.1	0.6
80°-90°	1.7	0.2
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°	265.4	35.4
0°-40°	424.5	56.7
0°-60°	707.6	94.5
0°-90°	748.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	748.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	357	
5°	355	34
15°	333	94
25°	299	138
35°	254	159
45°	204	157
55°	146	126
65°	28	35
75°	4	4
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	357.4
2.5°	357.4
5°	355.0
7.5°	351.8
10°	347.0
12.5°	340.6
15°	333.4
17.5°	326.2
20°	317.4
22.5°	308.6
25°	299.0
27.5°	289.4
30°	278.2
32.5°	266.3
35°	254.3
37.5°	242.3
40°	229.5
42.5°	216.7
45°	203.9
47.5°	190.3
50°	176.7
52.5°	163.1
55°	146.3
57.5°	122.3
60°	90.4
62.5°	55.2
65°	28.0
67.5°	12.8
70°	5.6
72.5°	4.0
75°	4.0
77.5°	3.2
80°	3.2
82.5°	2.4
85°	1.6
87.5°	0.8
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	16.83	18.28	17.19	18.60	18.91	16.83	18.28	17.19	18.60	18.91
	3H	16.75	18.04	17.13	18.37	18.73	16.75	18.04	17.13	18.37	18.73
	4H	16.69	17.89	17.09	18.24	18.62	16.69	17.89	17.09	18.24	18.62
	6H	16.64	17.73	17.05	18.10	18.50	16.64	17.73	17.05	18.10	18.50
	8H	16.60	17.65	17.03	18.04	18.44	16.60	17.65	17.03	18.04	18.44
	12H	16.57	17.57	17.00	17.95	18.38	16.57	17.57	17.00	17.95	18.38
4H	2H	16.75	17.94	17.15	18.29	18.67	16.75	17.94	17.15	18.29	18.67
	3H	16.68	17.65	17.09	18.05	18.45	16.68	17.65	17.09	18.05	18.45
	4H	16.62	17.48	17.05	17.90	18.34	16.62	17.48	17.05	17.90	18.34
	6H	16.57	17.31	17.03	17.75	18.22	16.57	17.31	17.03	17.75	18.22
	8H	16.53	17.22	16.99	17.67	18.14	16.53	17.22	16.99	17.67	18.14
	12H	16.49	17.11	16.98	17.59	18.07	16.49	17.11	16.98	17.59	18.07
8H	4H	16.50	17.20	16.97	17.64	18.11	16.50	17.20	16.97	17.64	18.11
	6H	16.44	17.01	16.94	17.50	17.98	16.44	17.01	16.94	17.50	17.98
	8H	16.39	16.91	16.91	17.42	17.91	16.39	16.91	16.91	17.42	17.91
	12H	16.36	16.83	16.88	17.32	17.89	16.36	16.83	16.88	17.32	17.89
12H	4H	16.46	17.08	16.95	17.56	18.03	16.46	17.08	16.95	17.56	18.03
	6H	16.38	16.90	16.90	17.41	17.90	16.38	16.90	16.90	17.41	17.90
	8H	16.35	16.82	16.87	17.31	17.88	16.35	16.82	16.87	17.31	17.88