

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: P865666

Luminaire Tested: PRLX-2002-S-935-10L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865666
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-935-10L-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 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

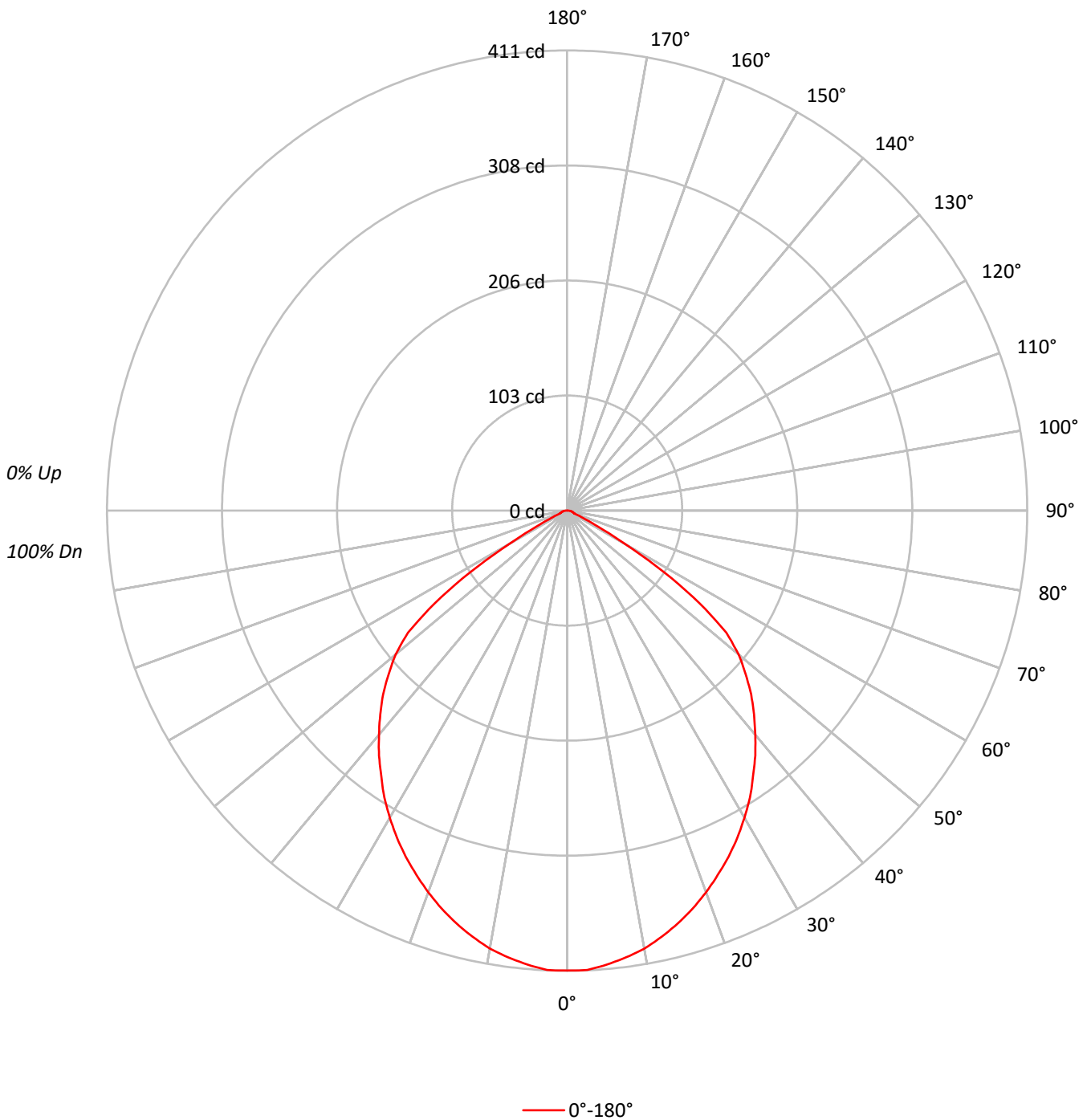
Lumens per Lamp: N/A
Luminaire Lumens: 815.7 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 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: 0.333 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°	7717
5°	7676
10°	7576
15°	7425
20°	7252
25°	7070
30°	6869
35°	6639
40°	6412
45°	6176
50°	5845
55°	4742
60°	2243
65°	684
70°	346
75°	392
80°	389
85°	582

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6176 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	4.7
10°-20°	107.5	13.2
20°-30°	157.0	19.2
30°-40°	181.3	22.2
40°-50°	178.7	21.9
50°-60°	123.7	15.2
60°-70°	21.1	2.6
70°-80°	5.3	0.7
80°-90°	2.4	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°	303.1	37.2
0°-40°	484.4	59.4
0°-60°	786.8	96.5
0°-90°	815.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	815.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	411	
5°	407	39
15°	382	108
25°	341	157
35°	290	181
45°	232	179
55°	145	124
65°	15	21
75°	5	5
85°	3	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	410.8
2.5°	410.8
5°	407.1
7.5°	402.6
10°	397.2
12.5°	390.0
15°	381.8
17.5°	372.8
20°	362.8
22.5°	352.0
25°	341.1
27.5°	329.3
30°	316.7
32.5°	304.0
35°	289.5
37.5°	276.0
40°	261.5
42.5°	247.0
45°	232.5
47.5°	216.2
50°	200.0
52.5°	179.1
55°	144.8
57.5°	103.1
60°	59.7
62.5°	30.8
65°	15.4
67.5°	7.2
70°	6.3
72.5°	5.4
75°	5.4
77.5°	4.5
80°	3.6
82.5°	3.6
85°	2.7
87.5°	0.9
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	15.79	17.21	16.16	17.53	17.84	15.79	17.21	16.16	17.53	17.84
	3H	15.70	16.95	16.08	17.28	17.65	15.70	16.95	16.08	17.28	17.65
	4H	15.66	16.82	16.06	17.17	17.55	15.66	16.82	16.06	17.17	17.55
	6H	15.61	16.68	16.03	17.05	17.44	15.61	16.68	16.03	17.05	17.44
	8H	15.59	16.60	16.02	16.99	17.39	15.59	16.60	16.02	16.99	17.39
	12H	15.57	16.54	16.00	16.92	17.35	15.57	16.54	16.00	16.92	17.35
4H	2H	15.65	16.81	16.05	17.16	17.54	15.65	16.81	16.05	17.16	17.54
	3H	15.58	16.51	15.99	16.92	17.32	15.58	16.51	15.99	16.92	17.32
	4H	15.53	16.37	15.97	16.78	17.23	15.53	16.37	15.97	16.78	17.23
	6H	15.50	16.22	15.96	16.67	17.13	15.50	16.22	15.96	16.67	17.13
	8H	15.48	16.15	15.95	16.60	17.07	15.48	16.15	15.95	16.60	17.07
	12H	15.47	16.07	15.96	16.55	17.02	15.47	16.07	15.96	16.55	17.02
8H	4H	15.42	16.09	15.89	16.54	17.01	15.42	16.09	15.89	16.54	17.01
	6H	15.38	15.94	15.89	16.43	16.91	15.38	15.94	15.89	16.43	16.91
	8H	15.37	15.88	15.89	16.39	16.88	15.37	15.88	15.89	16.39	16.88
	12H	15.39	15.84	15.90	16.33	16.90	15.39	15.84	15.90	16.33	16.90
12H	4H	15.38	15.98	15.87	16.46	16.93	15.38	15.98	15.87	16.46	16.93
	6H	15.33	15.84	15.85	16.35	16.84	15.33	15.84	15.85	16.35	16.84
	8H	15.34	15.80	15.86	16.29	16.86	15.34	15.80	15.86	16.29	16.86