

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: P865698

Luminaire Tested: PRLX-2002-S-940-05L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865698
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-940-05L-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 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

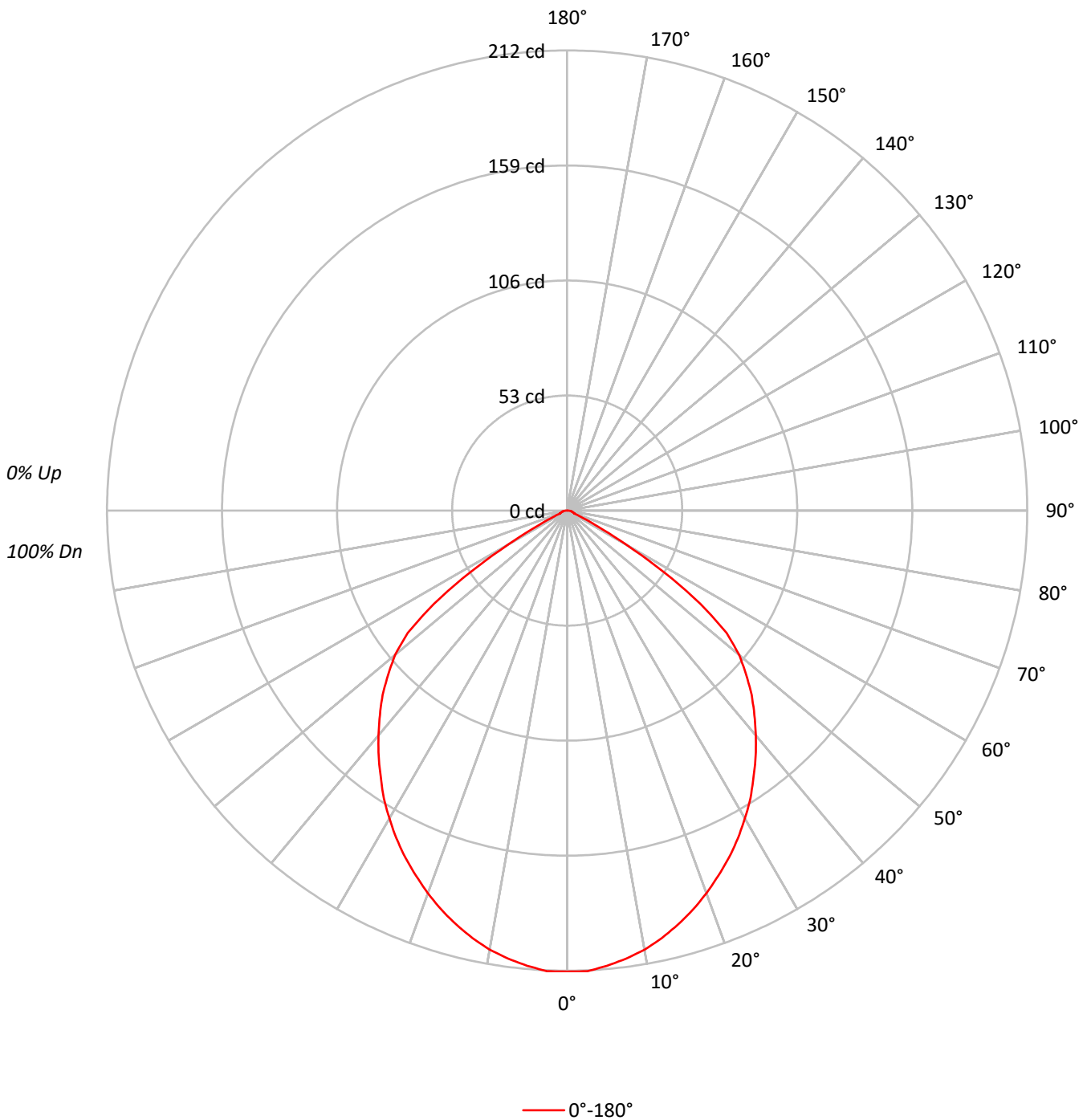
Lumens per Lamp: N/A
Luminaire Lumens: 421.8 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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°	3990
5°	3969
10°	3918
15°	3839
20°	3750
25°	3656
30°	3553
35°	3433
40°	3315
45°	3193
50°	3022
55°	2453
60°	1161
65°	356
70°	181
75°	203
80°	206
85°	302

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3193 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	4.7
10°-20°	55.6	13.2
20°-30°	81.2	19.2
30°-40°	93.7	22.2
40°-50°	92.4	21.9
50°-60°	63.9	15.2
60°-70°	10.9	2.6
70°-80°	2.8	0.7
80°-90°	1.3	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°	156.7	37.2
0°-40°	250.5	59.4
0°-60°	406.8	96.4
0°-90°	421.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	421.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	212	
5°	210	20
15°	197	56
25°	176	81
35°	150	94
45°	120	92
55°	75	64
65°	8	11
75°	3	3
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	212.4
2.5°	212.4
5°	210.5
7.5°	208.2
10°	205.4
12.5°	201.7
15°	197.4
17.5°	192.8
20°	187.6
22.5°	182.0
25°	176.4
27.5°	170.3
30°	163.8
32.5°	157.2
35°	149.7
37.5°	142.7
40°	135.2
42.5°	127.7
45°	120.2
47.5°	111.8
50°	103.4
52.5°	92.6
55°	74.9
57.5°	53.3
60°	30.9
62.5°	15.9
65°	8.0
67.5°	3.7
70°	3.3
72.5°	2.8
75°	2.8
77.5°	2.3
80°	1.9
82.5°	1.9
85°	1.4
87.5°	0.5
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	13.50	14.92	13.87	15.23	15.55	13.50	14.92	13.87	15.23	15.55
	3H	13.41	14.66	13.79	14.99	15.35	13.41	14.66	13.79	14.99	15.35
	4H	13.37	14.53	13.77	14.88	15.26	13.37	14.53	13.77	14.88	15.26
	6H	13.32	14.38	13.73	14.75	15.15	13.32	14.38	13.73	14.75	15.15
	8H	13.30	14.31	13.73	14.70	15.10	13.30	14.31	13.73	14.70	15.10
	12H	13.28	14.24	13.71	14.63	15.06	13.28	14.24	13.71	14.63	15.06
4H	2H	13.36	14.52	13.76	14.87	15.25	13.36	14.52	13.76	14.87	15.25
	3H	13.29	14.22	13.70	14.62	15.03	13.29	14.22	13.70	14.62	15.03
	4H	13.24	14.07	13.68	14.49	14.93	13.24	14.07	13.68	14.49	14.93
	6H	13.21	13.93	13.67	14.37	14.84	13.21	13.93	13.67	14.37	14.84
	8H	13.19	13.86	13.66	14.31	14.78	13.19	13.86	13.66	14.31	14.78
	12H	13.18	13.78	13.67	14.26	14.73	13.18	13.78	13.67	14.26	14.73
8H	4H	13.13	13.80	13.60	14.25	14.72	13.13	13.80	13.60	14.25	14.72
	6H	13.09	13.65	13.59	14.14	14.62	13.09	13.65	13.59	14.14	14.62
	8H	13.08	13.59	13.60	14.10	14.59	13.08	13.59	13.60	14.10	14.59
	12H	13.10	13.55	13.61	14.04	14.61	13.10	13.55	13.61	14.04	14.61
12H	4H	13.09	13.69	13.58	14.17	14.64	13.09	13.69	13.58	14.17	14.64
	6H	13.04	13.54	13.56	14.06	14.55	13.04	13.54	13.56	14.06	14.55
	8H	13.06	13.51	13.57	14.00	14.57	13.06	13.51	13.57	14.00	14.57