

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: P865730

Luminaire Tested: PRLX-2002-S-940-25L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865730
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-940-25L-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 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

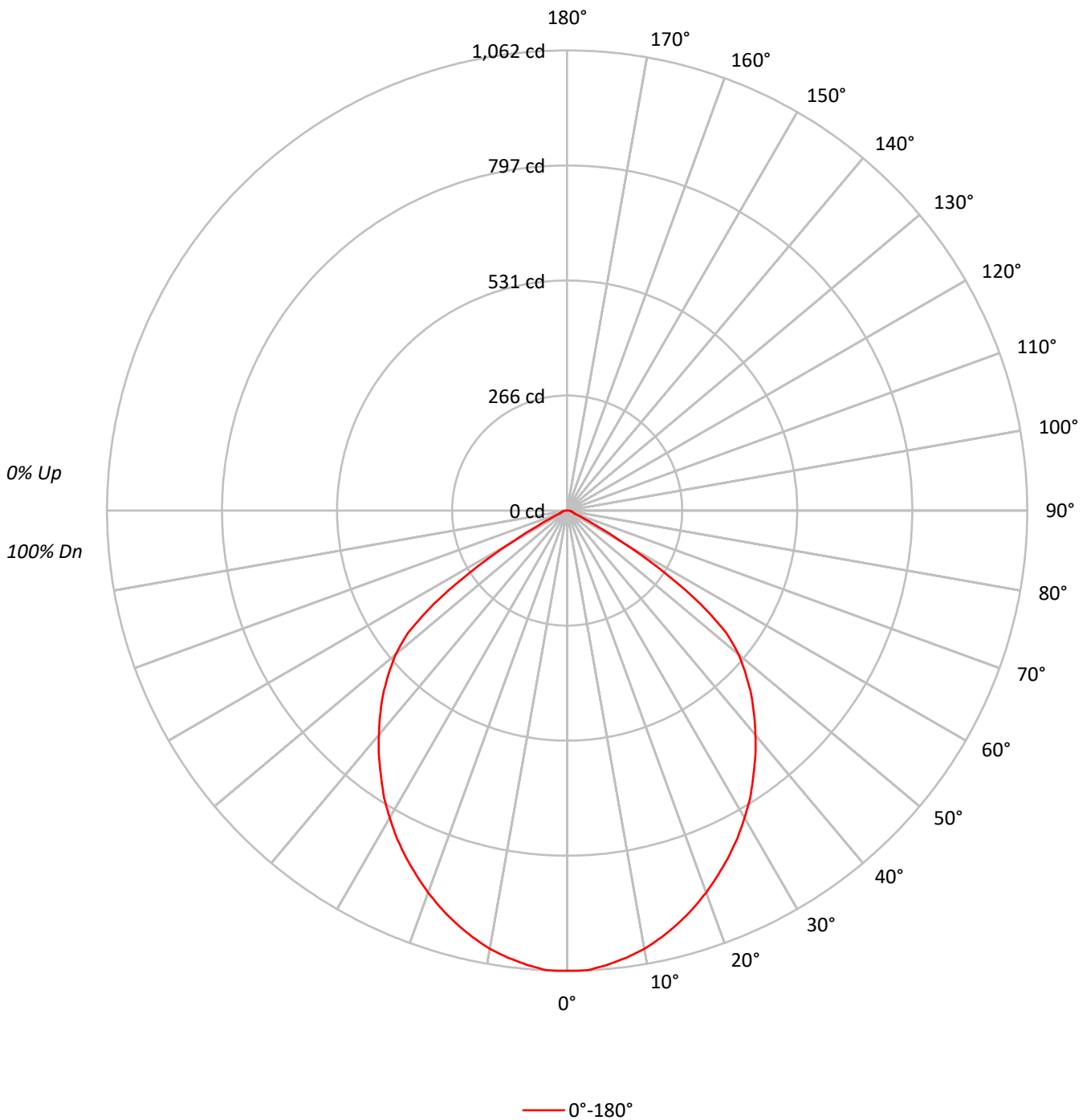
Lumens per Lamp: N/A
Luminaire Lumens: 2109.1 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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°	19951
5°	19850
10°	19589
15°	19198
20°	18752
25°	18278
30°	17760
35°	17166
40°	16579
45°	15971
50°	15108
55°	12258
60°	5801
65°	1769
70°	901
75°	1016
80°	1017
85°	1509

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15971 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	4.7
10°-20°	278.1	13.2
20°-30°	405.9	19.2
30°-40°	468.7	22.2
40°-50°	462.1	21.9
50°-60°	319.8	15.2
60°-70°	54.6	2.6
70°-80°	13.9	0.7
80°-90°	6.4	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°	783.7	37.2
0°-40°	1252.4	59.4
0°-60°	2034.2	96.5
0°-90°	2109.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2109.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1062	
5°	1053	100
15°	987	278
25°	882	406
35°	749	469
45°	601	462
55°	374	320
65°	40	55
75°	14	14
85°	7	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1062.1
2.5°	1062.1
5°	1052.7
7.5°	1041.0
10°	1027.0
12.5°	1008.3
15°	987.2
17.5°	963.8
20°	938.1
22.5°	910.0
25°	881.9
27.5°	851.5
30°	818.8
32.5°	786.0
35°	748.6
37.5°	713.5
40°	676.1
42.5°	638.6
45°	601.2
47.5°	559.1
50°	517.0
52.5°	463.2
55°	374.3
57.5°	266.7
60°	154.4
62.5°	79.5
65°	39.8
67.5°	18.7
70°	16.4
72.5°	14.0
75°	14.0
77.5°	11.7
80°	9.4
82.5°	9.4
85°	7.0
87.5°	2.3
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	19.10	20.52	19.46	20.83	21.14	19.10	20.52	19.46	20.83	21.14
	3H	19.01	20.26	19.39	20.59	20.95	19.01	20.26	19.39	20.59	20.95
	4H	18.96	20.12	19.36	20.47	20.86	18.96	20.12	19.36	20.47	20.86
	6H	18.92	19.98	19.33	20.35	20.74	18.92	19.98	19.33	20.35	20.74
	8H	18.89	19.90	19.32	20.29	20.70	18.89	19.90	19.32	20.29	20.70
	12H	18.88	19.84	19.31	20.22	20.65	18.88	19.84	19.31	20.22	20.65
4H	2H	18.96	20.12	19.36	20.47	20.85	18.96	20.12	19.36	20.47	20.85
	3H	18.88	19.82	19.29	20.22	20.62	18.88	19.82	19.29	20.22	20.62
	4H	18.84	19.67	19.27	20.09	20.53	18.84	19.67	19.27	20.09	20.53
	6H	18.81	19.52	19.27	19.97	20.44	18.81	19.52	19.27	19.97	20.44
	8H	18.78	19.46	19.25	19.90	20.37	18.78	19.46	19.25	19.90	20.37
	12H	18.78	19.37	19.26	19.86	20.33	18.78	19.37	19.26	19.86	20.33
8H	4H	18.73	19.40	19.20	19.85	20.32	18.73	19.40	19.20	19.85	20.32
	6H	18.69	19.24	19.19	19.74	20.22	18.69	19.24	19.19	19.74	20.22
	8H	18.68	19.18	19.20	19.70	20.19	18.68	19.18	19.20	19.70	20.19
	12H	18.69	19.15	19.21	19.64	20.21	18.69	19.15	19.21	19.64	20.21
12H	4H	18.69	19.28	19.17	19.77	20.24	18.69	19.28	19.17	19.77	20.24
	6H	18.64	19.14	19.16	19.65	20.15	18.64	19.14	19.16	19.65	20.15
	8H	18.65	19.10	19.16	19.60	20.17	18.65	19.10	19.16	19.60	20.17