

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: P865551

Luminaire Tested: PRLX-2001-S-940-15L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-940-15L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

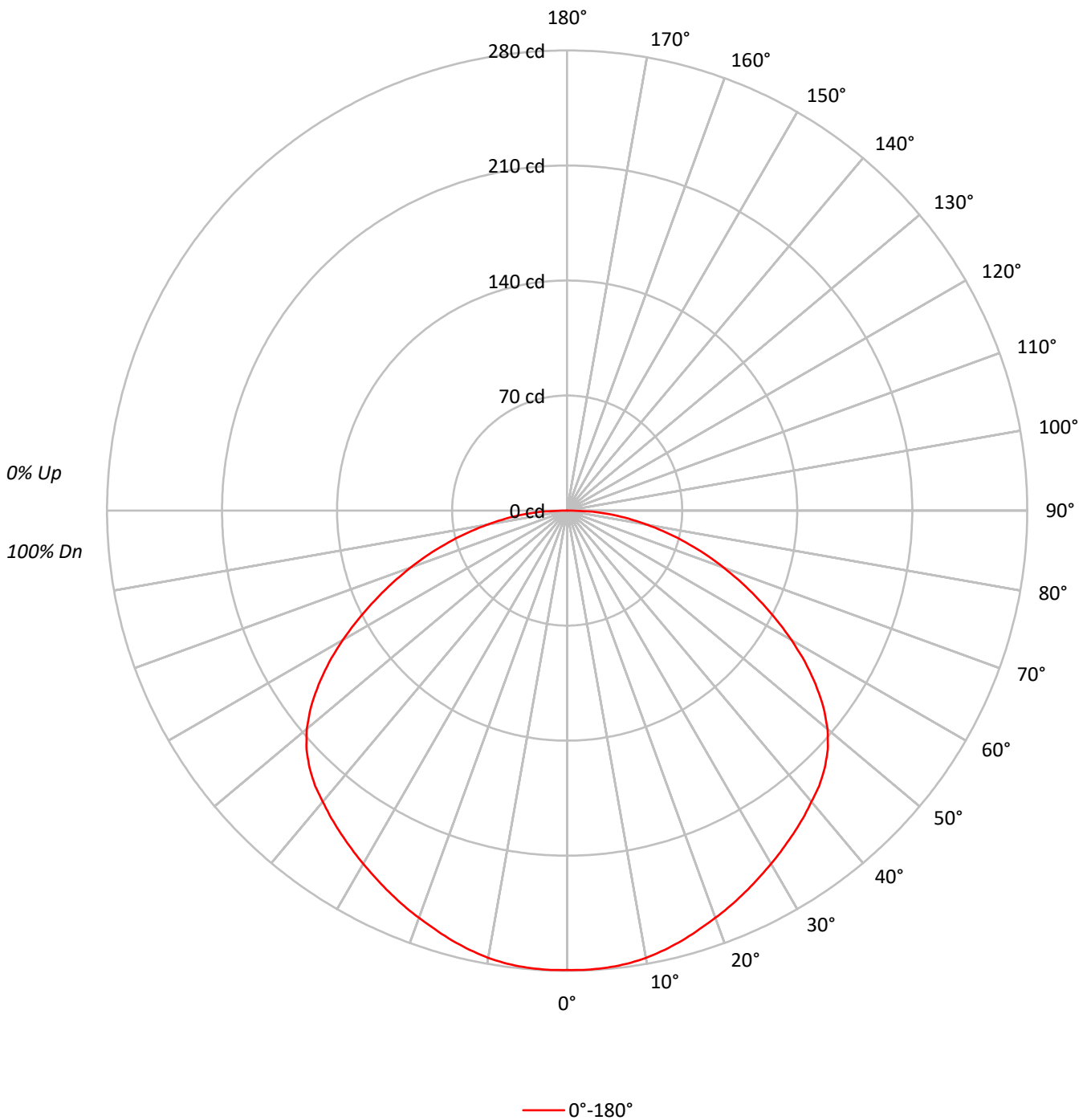
Lumens per Lamp: N/A
Luminaire Lumens: 942.3 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.5
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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

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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	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	38	33	45	38	33	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4560
5°	4571
10°	4578
15°	4573
20°	4577
25°	4611
30°	4674
35°	4779
40°	4925
45°	5111
50°	5247
55°	5249
60°	5141
65°	4979
70°	4826
75°	4695
80°	4649
85°	4866

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 5833 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	2.8
10°-20°	76.5	8.1
20°-30°	118.3	12.6
30°-40°	150.5	16.0
40°-50°	170.7	18.1
50°-60°	164.5	17.5
60°-70°	127.9	13.6
70°-80°	79.1	8.4
80°-90°	28.3	3.0
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°	221.4	23.5
0°-40°	371.9	39.5
0°-60°	707.0	75.0
0°-90°	942.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	942.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	280	
5°	279	27
15°	271	76
25°	256	118
35°	240	151
45°	222	171
55°	185	164
65°	129	128
75°	74	79
85°	26	28
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	279.6
2.5°	279.7
5°	279.2
7.5°	278.2
10°	276.4
12.5°	273.8
15°	270.8
17.5°	267.2
20°	263.7
22.5°	260.1
25°	256.2
27.5°	252.2
30°	248.2
32.5°	244.1
35°	240.0
37.5°	235.8
40°	231.3
42.5°	227.1
45°	221.6
47.5°	215.2
50°	206.8
52.5°	196.6
55°	184.6
57.5°	171.7
60°	157.6
62.5°	143.4
65°	129.0
67.5°	115.1
70°	101.2
72.5°	88.0
75°	74.5
77.5°	61.9
80°	49.5
82.5°	37.6
85°	26.0
87.5°	15.6
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	18.15	19.86	18.52	20.18	20.49	18.15	19.86	18.52	20.18	20.49
	3H	20.04	21.60	20.42	21.92	22.28	20.04	21.60	20.42	21.92	22.28
	4H	20.81	22.28	21.20	22.62	23.00	20.81	22.28	21.20	22.62	23.00
	6H	21.45	22.81	21.85	23.17	23.56	21.45	22.81	21.85	23.17	23.56
	8H	21.69	23.00	22.11	23.39	23.78	21.69	23.00	22.11	23.39	23.78
	12H	21.90	23.15	22.32	23.53	23.96	21.90	23.15	22.32	23.53	23.96
4H	2H	18.81	20.28	19.21	20.63	21.00	18.81	20.28	19.21	20.63	21.00
	3H	20.94	22.18	21.35	22.57	22.97	20.94	22.18	21.35	22.57	22.97
	4H	21.85	22.97	22.28	23.39	23.82	21.85	22.97	22.28	23.39	23.82
	6H	22.64	23.63	23.09	24.07	24.52	22.64	23.63	23.09	24.07	24.52
	8H	22.95	23.88	23.41	24.32	24.78	22.95	23.88	23.41	24.32	24.78
	12H	23.22	24.06	23.70	24.53	25.00	23.22	24.06	23.70	24.53	25.00
8H	4H	22.22	23.15	22.68	23.59	24.05	22.22	23.15	22.68	23.59	24.05
	6H	23.17	23.94	23.66	24.43	24.90	23.17	23.94	23.66	24.43	24.90
	8H	23.58	24.28	24.08	24.78	25.27	23.58	24.28	24.08	24.78	25.27
	12H	23.96	24.58	24.46	25.07	25.63	23.96	24.58	24.46	25.07	25.63
12H	4H	22.28	23.12	22.76	23.59	24.06	22.28	23.12	22.76	23.59	24.06
	6H	23.26	23.96	23.76	24.46	24.95	23.26	23.96	23.76	24.46	24.95
	8H	23.75	24.37	24.25	24.86	25.42	23.75	24.37	24.25	24.86	25.42