

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: P866816

Luminaire Tested: PRLX-2001-L-935-15L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-15L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

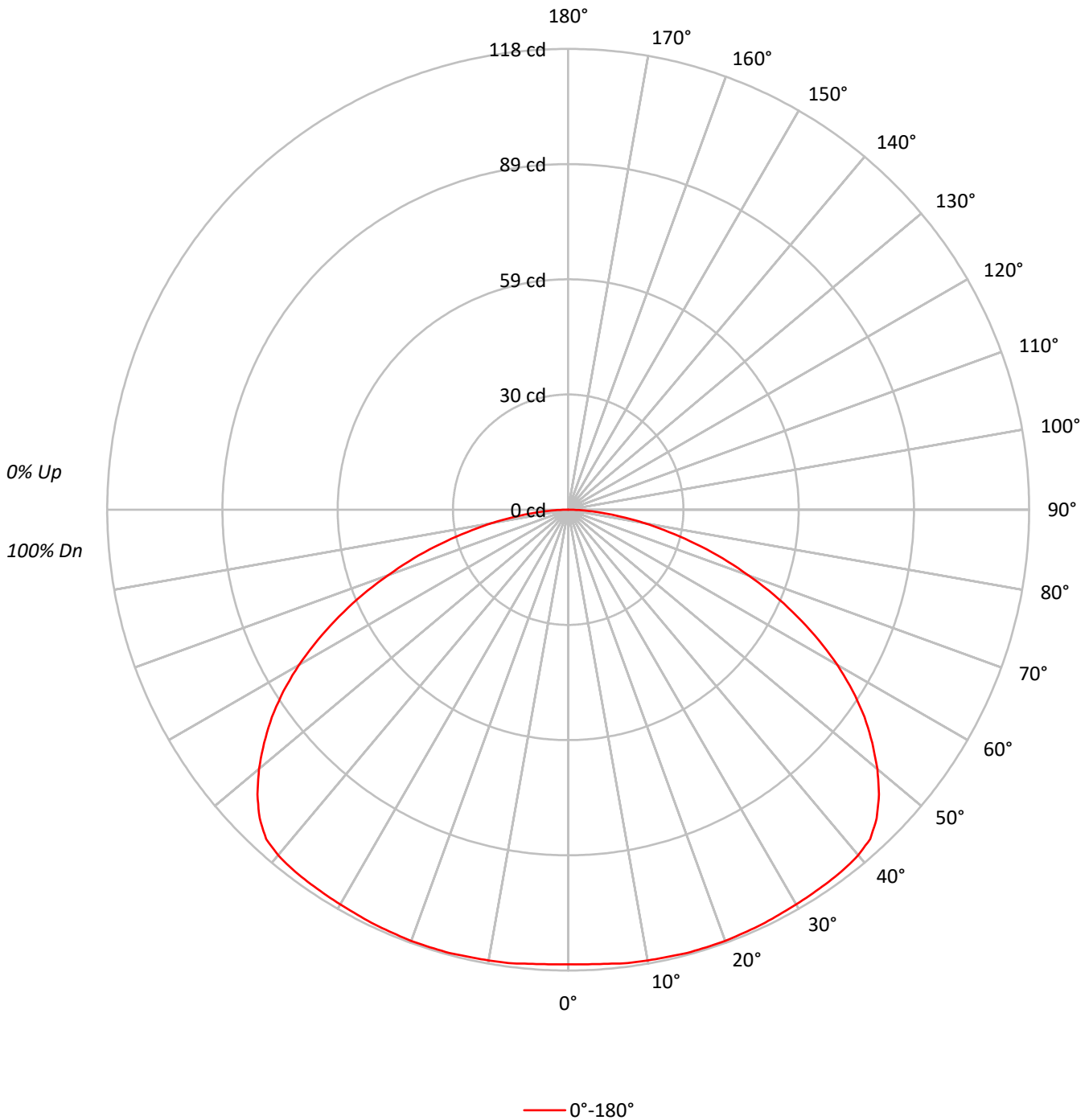
Lumens per Lamp: N/A
Luminaire Lumens: 449.0 lumens
Efficiency: N/A
Efficacy: 27.4 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	81	75	95	87	80	74	83	78	73		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50		61	55	49		59	53	49	46
5	73	60	50	43	71	59	50	43	57	49	43		55	48	42		53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37		49	42	36		47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28		40	33	28		39	33	28	26
9	54	40	31	26	52	39	31	25	38	31	25		37	30	25		36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	636
5°	640
10°	651
15°	665
20°	684
25°	707
30°	737
35°	776
40°	824
45°	864
50°	879
55°	883
60°	870
65°	837
70°	783
75°	714
80°	623
85°	489

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 883 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	2.5
10°-20°	33.3	7.4
20°-30°	54.2	12.1
30°-40°	73.0	16.3
40°-50°	85.7	19.1
50°-60°	82.5	18.4
60°-70°	63.9	14.2
70°-80°	35.9	8.0
80°-90°	9.4	2.1
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°	98.7	22.0
0°-40°	171.6	38.2
0°-60°	339.8	75.7
0°-90°	449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	449.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	116	
5°	117	11
15°	118	33
25°	117	54
35°	116	73
45°	112	86
55°	93	82
65°	65	64
75°	34	36
85°	8	9
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	116.4
2.5°	116.5
5°	116.7
7.5°	117.1
10°	117.2
12.5°	117.3
15°	117.5
17.5°	117.5
20°	117.5
22.5°	117.3
25°	117.2
27.5°	116.9
30°	116.7
32.5°	116.5
35°	116.3
37.5°	116.0
40°	115.5
42.5°	114.4
45°	111.7
47.5°	107.9
50°	103.3
52.5°	98.1
55°	92.6
57.5°	86.4
60°	79.6
62.5°	72.3
65°	64.7
67.5°	57.1
70°	49.0
72.5°	41.5
75°	33.8
77.5°	26.4
80°	19.8
82.5°	13.5
85°	7.8
87.5°	3.4
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	12.15	13.87	12.51	14.18	14.50	12.15	13.87	12.51	14.18	14.50
	3H	13.97	15.53	14.35	15.86	16.21	13.97	15.53	14.35	15.86	16.21
	4H	14.63	16.10	15.02	16.45	16.82	14.63	16.10	15.02	16.45	16.82
	6H	15.09	16.46	15.50	16.82	17.21	15.09	16.46	15.50	16.82	17.21
	8H	15.23	16.54	15.65	16.93	17.32	15.23	16.54	15.65	16.93	17.32
	12H	15.32	16.57	15.75	16.95	17.38	15.32	16.57	15.75	16.95	17.38
4H	2H	12.81	14.28	13.20	14.63	15.00	12.81	14.28	13.20	14.63	15.00
	3H	14.84	16.08	15.25	16.48	16.87	14.84	16.08	15.25	16.48	16.87
	4H	15.62	16.74	16.05	17.16	17.59	15.62	16.74	16.05	17.16	17.59
	6H	16.20	17.19	16.66	17.63	18.08	16.20	17.19	16.66	17.63	18.08
	8H	16.39	17.31	16.85	17.75	18.22	16.39	17.31	16.85	17.75	18.22
	12H	16.52	17.35	17.00	17.82	18.29	16.52	17.35	17.00	17.82	18.29
8H	4H	15.93	16.85	16.39	17.29	17.76	15.93	16.85	16.39	17.29	17.76
	6H	16.63	17.40	17.12	17.88	18.36	16.63	17.40	17.12	17.88	18.36
	8H	16.88	17.57	17.39	18.08	18.56	16.88	17.57	17.39	18.08	18.56
	12H	17.07	17.69	17.58	18.17	18.73	17.07	17.69	17.58	18.17	18.73
12H	4H	15.97	16.80	16.45	17.27	17.74	15.97	16.80	16.45	17.27	17.74
	6H	16.68	17.38	17.19	17.88	18.36	16.68	17.38	17.19	17.88	18.36
	8H	16.99	17.60	17.49	18.09	18.65	16.99	17.60	17.49	18.09	18.65