

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: P866792

Luminaire Tested: PRLX-2001-L-935-100L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866792
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-935-100L-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 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

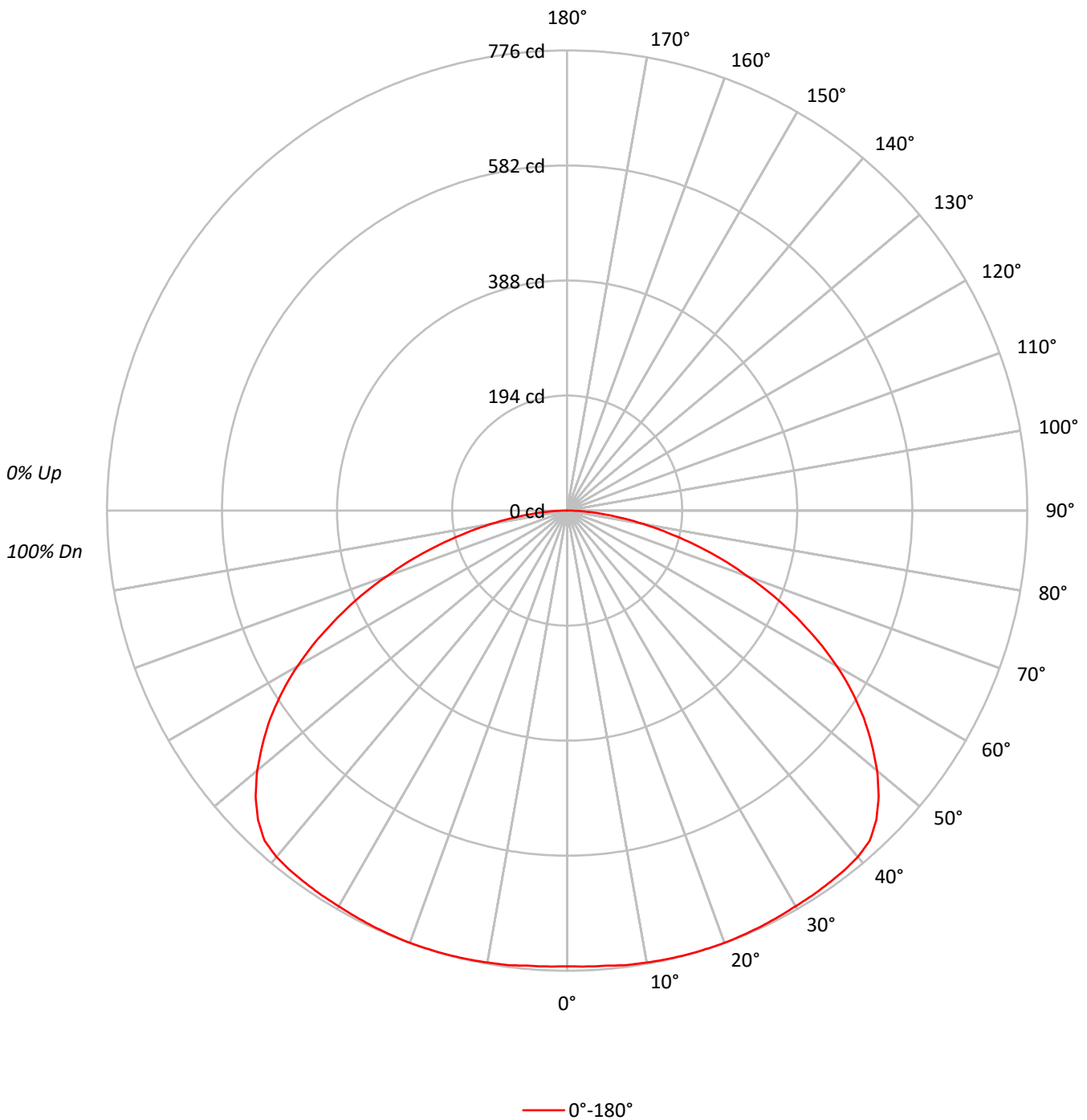
Lumens per Lamp: N/A
Luminaire Lumens: 2965.0 lumens
Efficiency: N/A
Efficacy: 37.3 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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°	4202
5°	4228
10°	4296
15°	4390
20°	4513
25°	4668
30°	4863
35°	5123
40°	5441
45°	5702
50°	5803
55°	5824
60°	5748
65°	5524
70°	5176
75°	4717
80°	4118
85°	3237

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 5824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	2.5
10°-20°	219.8	7.4
20°-30°	357.9	12.1
30°-40°	482.0	16.3
40°-50°	566.0	19.1
50°-60°	544.3	18.4
60°-70°	422.2	14.2
70°-80°	237.0	8.0
80°-90°	62.1	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°	651.4	22.0
0°-40°	1133.4	38.2
0°-60°	2243.7	75.7
0°-90°	2965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2965.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	769	
5°	770	74
15°	776	220
25°	774	358
35°	768	482
45°	738	566
55°	611	544
65°	427	422
75°	223	237
85°	52	62
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	768.6
2.5°	769.5
5°	770.4
7.5°	773.0
10°	773.9
12.5°	774.8
15°	775.7
17.5°	775.7
20°	775.7
22.5°	774.8
25°	773.9
27.5°	772.2
30°	770.4
32.5°	769.5
35°	767.7
37.5°	765.9
40°	762.4
42.5°	755.3
45°	737.5
47.5°	712.6
50°	682.3
52.5°	647.6
55°	611.1
57.5°	570.2
60°	525.7
62.5°	477.7
65°	427.0
67.5°	377.2
70°	323.8
72.5°	274.0
75°	223.3
77.5°	174.4
80°	130.8
82.5°	89.0
85°	51.6
87.5°	22.2
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	18.70	20.42	19.07	20.74	21.05	18.70	20.42	19.07	20.74	21.05
	3H	20.53	22.09	20.90	22.41	22.77	20.53	22.09	20.90	22.41	22.77
	4H	21.18	22.66	21.58	23.00	23.38	21.18	22.66	21.58	23.00	23.38
	6H	21.65	23.01	22.06	23.38	23.77	21.65	23.01	22.06	23.38	23.77
	8H	21.79	23.10	22.21	23.49	23.88	21.79	23.10	22.21	23.49	23.88
	12H	21.88	23.13	22.30	23.51	23.94	21.88	23.13	22.30	23.51	23.94
4H	2H	19.36	20.84	19.76	21.18	21.56	19.36	20.84	19.76	21.18	21.56
	3H	21.40	22.64	21.81	23.03	23.43	21.40	22.64	21.81	23.03	23.43
	4H	22.18	23.30	22.61	23.71	24.15	22.18	23.30	22.61	23.71	24.15
	6H	22.76	23.75	23.21	24.19	24.64	22.76	23.75	23.21	24.19	24.64
	8H	22.95	23.87	23.41	24.31	24.78	22.95	23.87	23.41	24.31	24.78
	12H	23.08	23.91	23.56	24.38	24.85	23.08	23.91	23.56	24.38	24.85
8H	4H	22.49	23.41	22.95	23.85	24.32	22.49	23.41	22.95	23.85	24.32
	6H	23.19	23.96	23.68	24.44	24.92	23.19	23.96	23.68	24.44	24.92
	8H	23.44	24.13	23.95	24.64	25.12	23.44	24.13	23.95	24.64	25.12
	12H	23.63	24.24	24.14	24.73	25.29	23.63	24.24	24.14	24.73	25.29
12H	4H	22.53	23.36	23.00	23.83	24.30	22.53	23.36	23.00	23.83	24.30
	6H	23.24	23.93	23.75	24.44	24.92	23.24	23.93	23.75	24.44	24.92
	8H	23.55	24.16	24.05	24.65	25.21	23.55	24.16	24.05	24.65	25.21