

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: P866744

Luminaire Tested: PRLX-2001-L-930-133L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866744
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-930-133L-G-X-X-BLAK-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

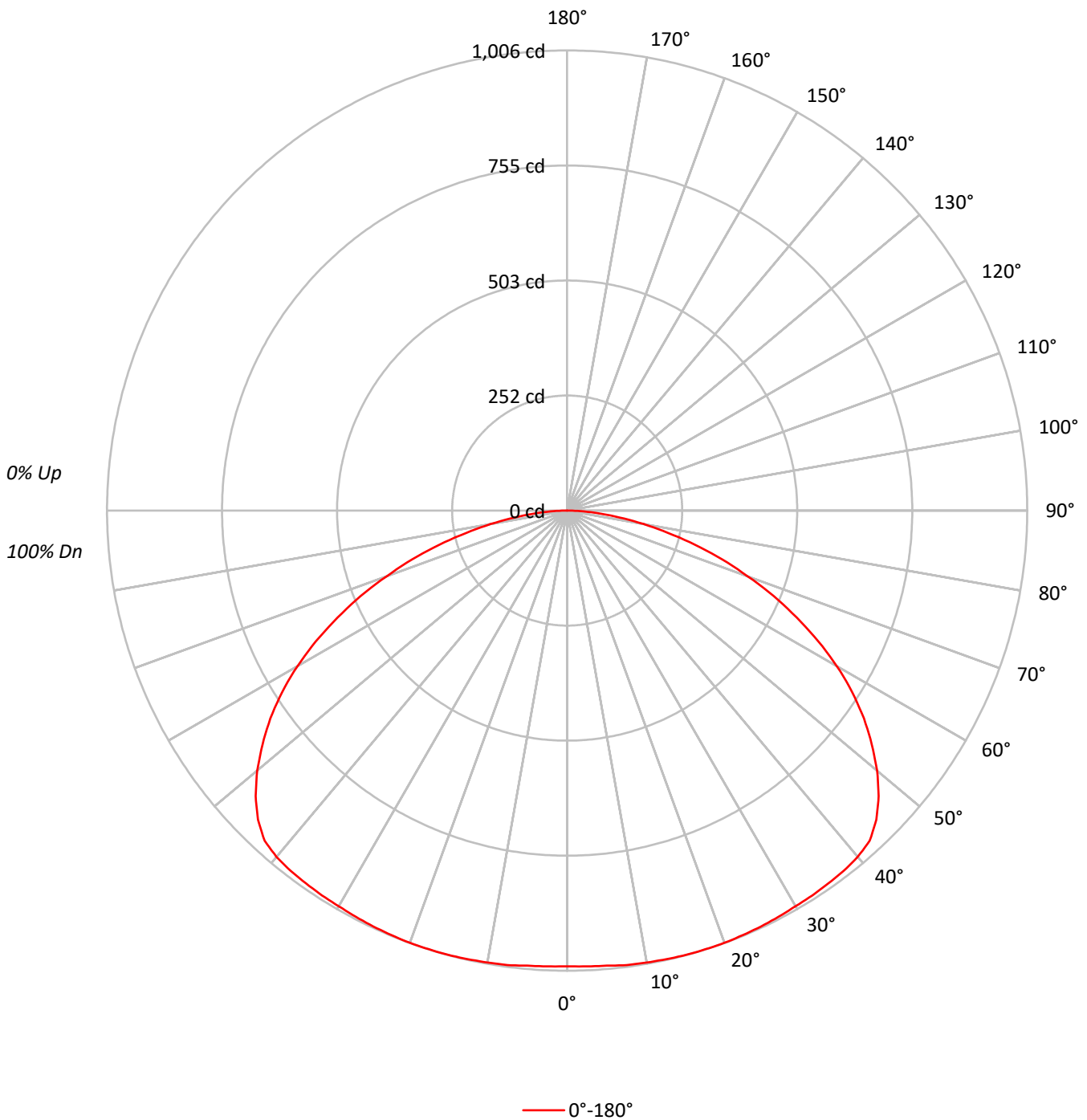
Lumens per Lamp: N/A
Luminaire Lumens: 3843.7 lumens
Efficiency: N/A
Efficacy: 34.4 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69
3	88	77	68	62	86	75	67	61	72	66	60	70	64	59	67	62	58
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49
5	73	60	50	43	71	59	50	43	57	49	43	55	48	42	53	47	42
6	68	54	44	37	66	53	44	37	51	43	37	49	42	36	47	41	36
7	62	48	39	33	61	47	39	32	46	38	32	44	37	32	43	37	32
8	58	44	35	29	56	43	35	29	42	34	28	40	33	28	39	33	28
9	54	40	31	26	52	39	31	25	38	31	25	37	30	25	36	30	25
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5447
5°	5481
10°	5570
15°	5691
20°	5850
25°	6052
30°	6304
35°	6642
40°	7053
45°	7391
50°	7523
55°	7551
60°	7451
65°	7160
70°	6710
75°	6115
80°	5336
85°	4196

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 7551 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	2.5
10°-20°	284.9	7.4
20°-30°	464.0	12.1
30°-40°	624.8	16.3
40°-50°	733.7	19.1
50°-60°	705.7	18.4
60°-70°	547.4	14.2
70°-80°	307.2	8.0
80°-90°	80.4	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°	844.5	22.0
0°-40°	1469.3	38.2
0°-60°	2908.6	75.7
0°-90°	3843.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3843.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	996	
5°	999	96
15°	1006	285
25°	1003	464
35°	995	625
45°	956	734
55°	792	706
65°	554	547
75°	290	307
85°	67	80
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	996.4
2.5°	997.5
5°	998.7
7.5°	1002.1
10°	1003.3
12.5°	1004.4
15°	1005.6
17.5°	1005.6
20°	1005.6
22.5°	1004.4
25°	1003.3
27.5°	1001.0
30°	998.7
32.5°	997.5
35°	995.2
37.5°	992.9
40°	988.3
42.5°	979.1
45°	956.0
47.5°	923.7
50°	884.5
52.5°	839.5
55°	792.2
57.5°	739.2
60°	681.5
62.5°	619.3
65°	553.5
67.5°	489.0
70°	419.8
72.5°	355.2
75°	289.5
77.5°	226.0
80°	169.5
82.5°	115.3
85°	66.9
87.5°	28.8
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	19.60	21.32	19.97	21.64	21.95	19.60	21.32	19.97	21.64	21.95
	3H	21.43	22.99	21.81	23.32	23.67	21.43	22.99	21.81	23.32	23.67
	4H	22.09	23.56	22.48	23.91	24.28	22.09	23.56	22.48	23.91	24.28
	6H	22.55	23.92	22.96	24.28	24.67	22.55	23.92	22.96	24.28	24.67
	8H	22.69	24.00	23.11	24.39	24.78	22.69	24.00	23.11	24.39	24.78
	12H	22.78	24.03	23.21	24.41	24.84	22.78	24.03	23.21	24.41	24.84
4H	2H	20.26	21.74	20.66	22.08	22.46	20.26	21.74	20.66	22.08	22.46
	3H	22.30	23.54	22.71	23.94	24.33	22.30	23.54	22.71	23.94	24.33
	4H	23.08	24.20	23.51	24.62	25.05	23.08	24.20	23.51	24.62	25.05
	6H	23.66	24.65	24.12	25.09	25.54	23.66	24.65	24.12	25.09	25.54
	8H	23.85	24.77	24.31	25.21	25.68	23.85	24.77	24.31	25.21	25.68
	12H	23.98	24.81	24.46	25.28	25.75	23.98	24.81	24.46	25.28	25.75
8H	4H	23.39	24.31	23.85	24.76	25.22	23.39	24.31	23.85	24.76	25.22
	6H	24.09	24.86	24.58	25.35	25.82	24.09	24.86	24.58	25.35	25.82
	8H	24.34	25.03	24.85	25.54	26.02	24.34	25.03	24.85	25.54	26.02
	12H	24.53	25.14	25.04	25.63	26.19	24.53	25.14	25.04	25.63	26.19
12H	4H	23.43	24.26	23.91	24.73	25.20	23.43	24.26	23.91	24.73	25.20
	6H	24.14	24.84	24.65	25.34	25.82	24.14	24.84	24.65	25.34	25.82
	8H	24.45	25.06	24.95	25.55	26.11	24.45	25.06	24.95	25.55	26.11