

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: P865496

Luminaire Tested: PRLX-2001-S-935-05L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-935-05L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

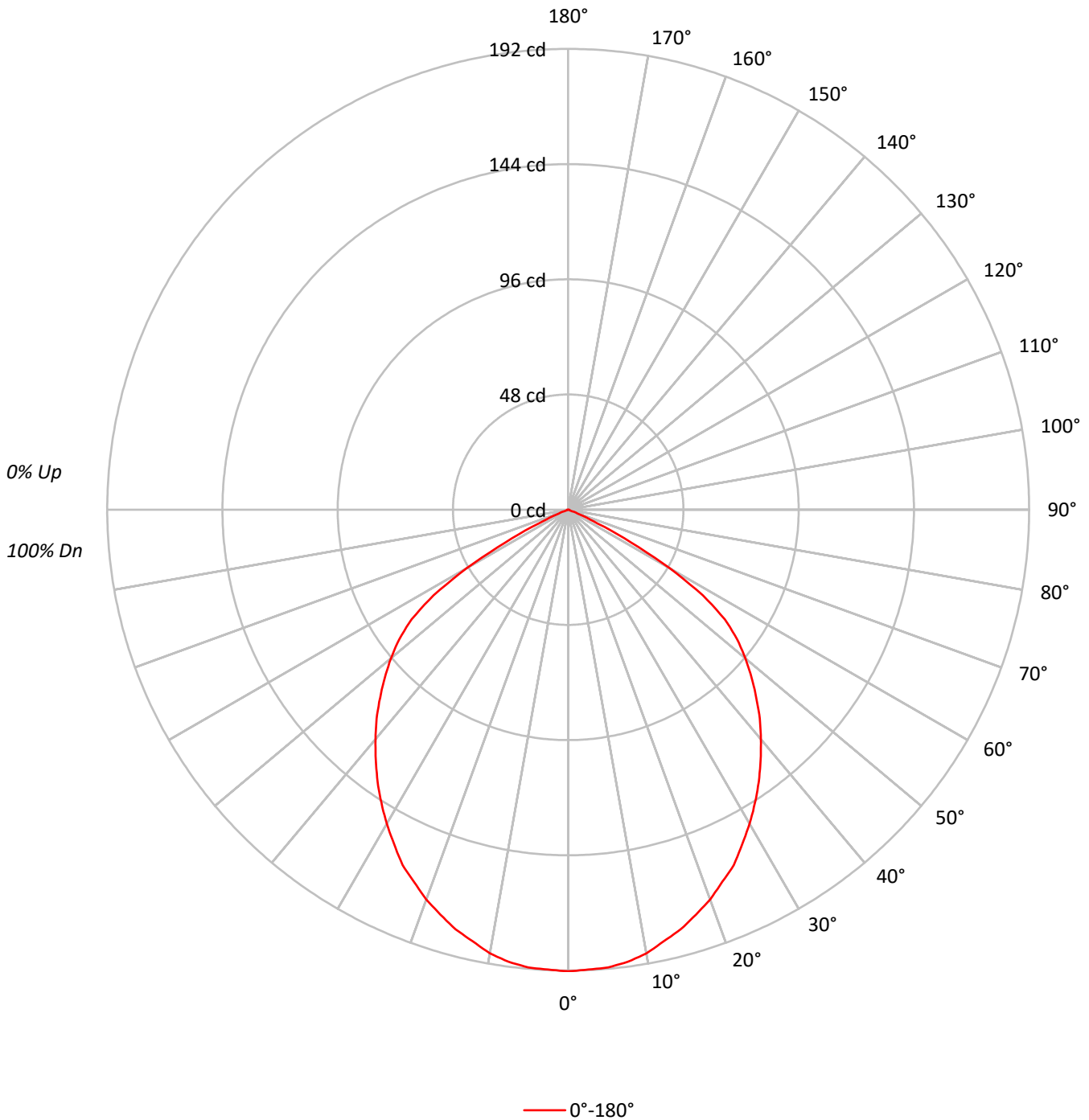
Lumens per Lamp: N/A
Luminaire Lumens: 403.4 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.29
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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	111	108	104	102	109	106	103	100	101	99	97		98	96	94		94	93	91	89
2	103	97	91	86	101	95	90	85	91	87	84		88	85	82		85	83	80	78
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77	73	70	68
4	88	78	70	64	86	77	69	64	74	68	63		72	67	62		70	65	62	60
5	82	70	62	56	80	69	62	56	67	61	56		65	60	55		64	59	54	53
6	76	64	56	50	74	63	55	50	61	54	49		59	53	49		58	53	48	47
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53	48	43	42
8	66	53	45	40	64	52	45	40	51	44	40		50	44	39		49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3136
5°	3134
10°	3109
15°	3056
20°	2999
25°	2939
30°	2846
35°	2756
40°	2659
45°	2556
50°	2446
55°	2263
60°	1595
65°	525
70°	43
75°	32
80°	47
85°	94

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2556 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.2	4.5
10°-20°	51.0	12.6
20°-30°	74.9	18.6
30°-40°	86.5	21.4
40°-50°	85.5	21.2
50°-60°	68.6	17.0
60°-70°	17.8	4.4
70°-80°	0.6	0.1
80°-90°	0.5	0.1
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°	144.0	35.7
0°-40°	230.5	57.1
0°-60°	384.6	95.3
0°-90°	403.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	403.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	192	
5°	191	18
15°	181	51
25°	163	75
35°	138	86
45°	111	85
55°	80	69
65°	14	18
75°	0	1
85°	0	0
90°	0	

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CATALOG NUMBER: PRLX-2001-S-935-05L-L-U-S-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	192.3
2.5°	191.8
5°	191.4
7.5°	190.0
10°	187.7
12.5°	184.1
15°	181.0
17.5°	176.9
20°	172.8
22.5°	167.8
25°	163.3
27.5°	157.0
30°	151.1
32.5°	144.8
35°	138.4
37.5°	131.6
40°	124.9
42.5°	118.1
45°	110.8
47.5°	103.6
50°	96.4
52.5°	88.7
55°	79.6
57.5°	66.5
60°	48.9
62.5°	29.4
65°	13.6
67.5°	5.0
70°	0.9
72.5°	0.5
75°	0.5
77.5°	0.5
80°	0.5
82.5°	0.5
85°	0.5
87.5°	0.5
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	14.75	16.20	15.11	16.51	16.83	14.75	16.20	15.11	16.51	16.83
	3H	14.65	15.92	15.02	16.25	16.62	14.65	15.92	15.02	16.25	16.62
	4H	14.58	15.77	14.98	16.12	16.50	14.58	15.77	14.98	16.12	16.50
	6H	14.51	15.60	14.93	15.97	16.36	14.51	15.60	14.93	15.97	16.36
	8H	14.47	15.51	14.90	15.90	16.30	14.47	15.51	14.90	15.90	16.30
	12H	14.44	15.43	14.87	15.81	16.24	14.44	15.43	14.87	15.81	16.24
4H	2H	14.65	15.84	15.05	16.19	16.57	14.65	15.84	15.05	16.19	16.57
	3H	14.56	15.51	14.97	15.92	16.32	14.56	15.51	14.97	15.92	16.32
	4H	14.48	15.33	14.91	15.75	16.19	14.48	15.33	14.91	15.75	16.19
	6H	14.41	15.14	14.87	15.59	16.05	14.41	15.14	14.87	15.59	16.05
	8H	14.36	15.04	14.82	15.49	15.96	14.36	15.04	14.82	15.49	15.96
	12H	14.32	14.93	14.80	15.41	15.88	14.32	14.93	14.80	15.41	15.88
8H	4H	14.35	15.04	14.82	15.49	15.96	14.35	15.04	14.82	15.49	15.96
	6H	14.26	14.82	14.76	15.32	15.80	14.26	14.82	14.76	15.32	15.80
	8H	14.20	14.71	14.72	15.22	15.71	14.20	14.71	14.72	15.22	15.71
	12H	14.16	14.61	14.67	15.11	15.68	14.16	14.61	14.67	15.11	15.68
12H	4H	14.31	14.92	14.80	15.40	15.87	14.31	14.92	14.80	15.40	15.87
	6H	14.20	14.71	14.72	15.22	15.71	14.20	14.71	14.72	15.22	15.71
	8H	14.15	14.61	14.67	15.10	15.67	14.15	14.61	14.67	15.10	15.67