

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: P865919

Luminaire Tested: PRLX-2001-M-927-35L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865919  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-927-35L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

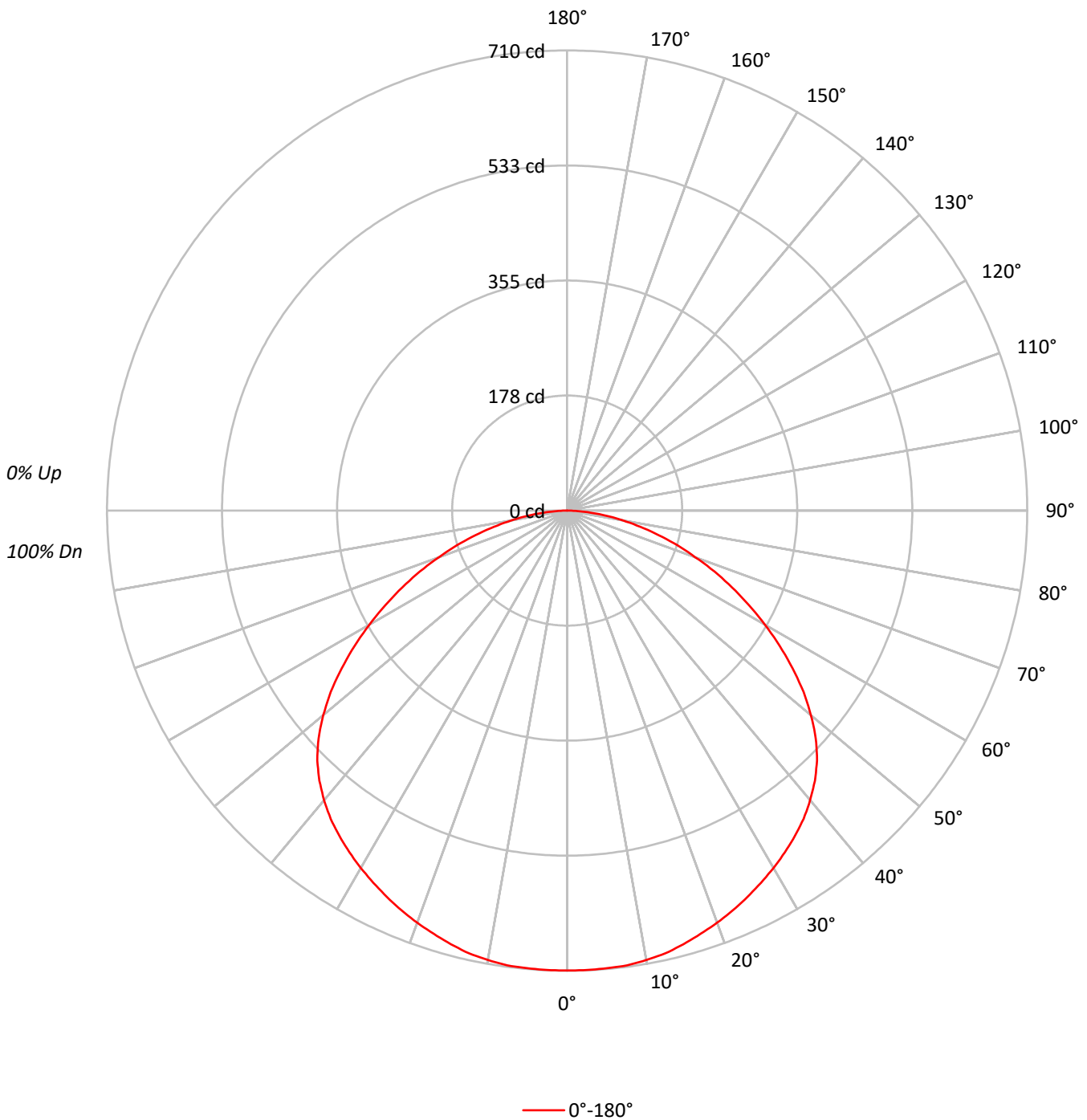
Lumens per Lamp: N/A  
Luminaire Lumens: 2224.4 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct

Input Watts (W): 30  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: 0.333 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	109	104	99	95	106	101	97	94	97	94	91		93	91	88		90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	6022
5°	6037
10°	6068
15°	6086
20°	6111
25°	6161
30°	6239
35°	6348
40°	6463
45°	6544
50°	6483
55°	6280
60°	5984
65°	5634
70°	5223
75°	4803
80°	4252
85°	3456

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6544 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.5	3.0
10°-20°	195.7	8.8
20°-30°	303.8	13.7
30°-40°	383.7	17.3
40°-50°	418.9	18.8
50°-60°	379.1	17.0
60°-70°	278.1	12.5
70°-80°	155.3	7.0
80°-90°	42.3	1.9
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°	567.0	25.5
0°-40°	950.8	42.7
0°-60°	1748.7	78.6
0°-90°	2224.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2224.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	710	
5°	709	68
15°	693	196
25°	658	304
35°	613	384
45°	545	419
55°	424	379
65°	281	278
75°	146	155
85°	36	42
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	709.6
2.5°	709.6
5°	708.7
7.5°	707.8
10°	704.2
12.5°	699.8
15°	692.7
17.5°	684.7
20°	676.7
22.5°	667.8
25°	658.0
27.5°	647.4
30°	636.7
32.5°	625.2
35°	612.8
37.5°	599.4
40°	583.4
42.5°	565.7
45°	545.3
47.5°	520.4
50°	491.1
52.5°	460.0
55°	424.5
57.5°	389.0
60°	352.6
62.5°	316.1
65°	280.6
67.5°	246.0
70°	210.5
72.5°	178.5
75°	146.5
77.5°	115.4
80°	87.0
82.5°	60.4
85°	35.5
87.5°	16.0
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	18.64	20.30	19.00	20.61	20.93	18.64	20.30	19.00	20.61	20.93
	3H	20.33	21.83	20.70	22.16	22.52	20.33	21.83	20.70	22.16	22.52
	4H	20.95	22.37	21.35	22.72	23.09	20.95	22.37	21.35	22.72	23.09
	6H	21.41	22.72	21.82	23.09	23.48	21.41	22.72	21.82	23.09	23.48
	8H	21.55	22.81	21.98	23.20	23.60	21.55	22.81	21.98	23.20	23.60
	12H	21.64	22.85	22.07	23.23	23.66	21.64	22.85	22.07	23.23	23.66
4H	2H	19.24	20.66	19.64	21.00	21.38	19.24	20.66	19.64	21.00	21.38
	3H	21.15	22.34	21.56	22.74	23.14	21.15	22.34	21.56	22.74	23.14
	4H	21.90	22.98	22.34	23.39	23.83	21.90	22.98	22.34	23.39	23.83
	6H	22.48	23.43	22.94	23.87	24.32	22.48	23.43	22.94	23.87	24.32
	8H	22.67	23.56	23.13	24.00	24.46	22.67	23.56	23.13	24.00	24.46
	12H	22.81	23.60	23.29	24.07	24.54	22.81	23.60	23.29	24.07	24.54
8H	4H	22.20	23.08	22.66	23.52	23.99	22.20	23.08	22.66	23.52	23.99
	6H	22.90	23.63	23.39	24.12	24.59	22.90	23.63	23.39	24.12	24.59
	8H	23.16	23.81	23.66	24.32	24.80	23.16	23.81	23.66	24.32	24.80
	12H	23.36	23.94	23.86	24.43	24.99	23.36	23.94	23.86	24.43	24.99
12H	4H	22.23	23.03	22.71	23.50	23.97	22.23	23.03	22.71	23.50	23.97
	6H	22.95	23.61	23.46	24.11	24.60	22.95	23.61	23.46	24.11	24.60
	8H	23.26	23.85	23.77	24.34	24.90	23.26	23.85	23.77	24.34	24.90