

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: P866883

Luminaire Tested: PRLX-2001-L-940-15L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866883  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-62)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-940-15L-G-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

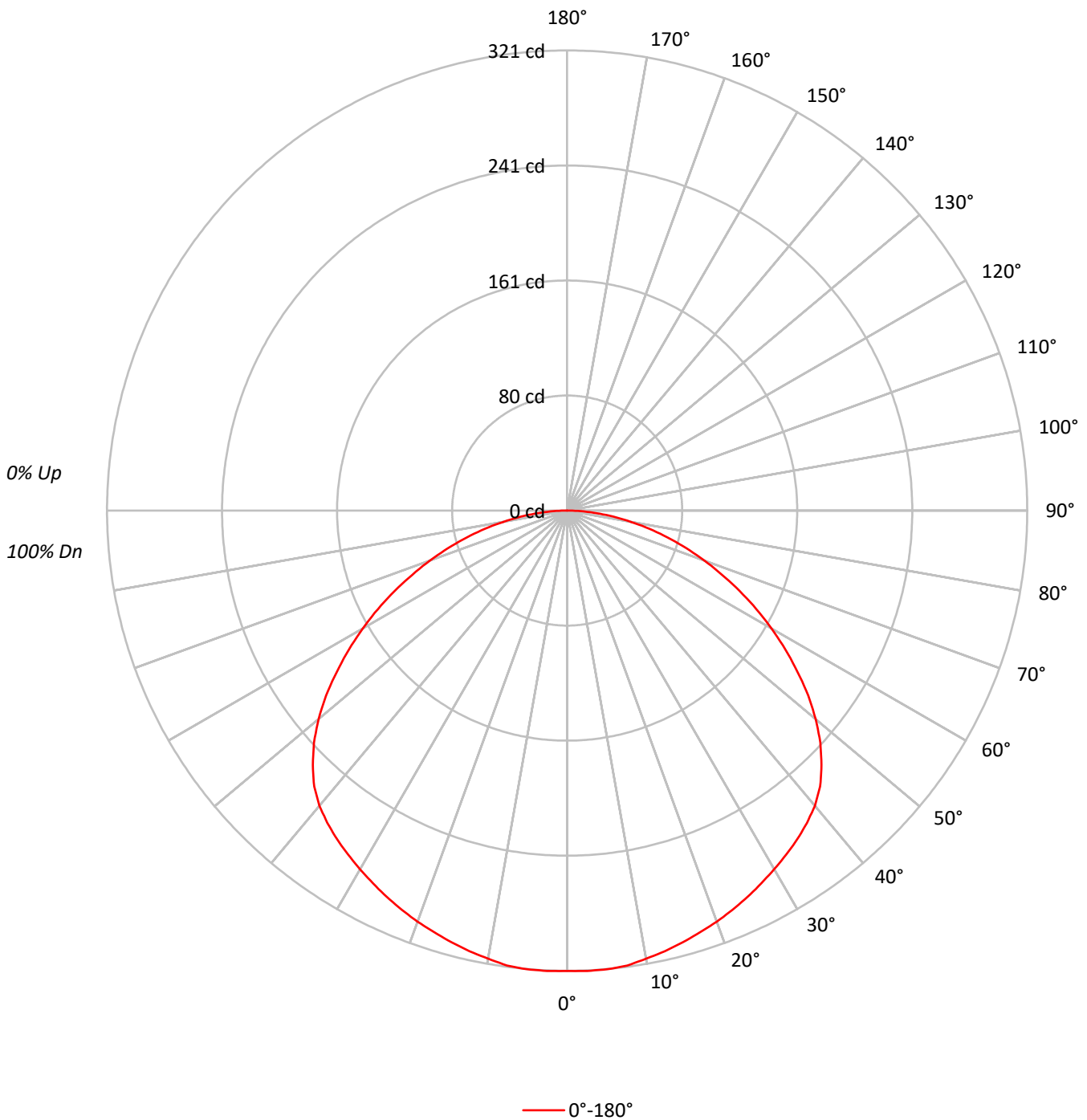
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1031.2 lumens  
Efficiency: N/A  
Efficacy: 62.9 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.4  
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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

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

	0°
0°	1756
5°	1763
10°	1762
15°	1765
20°	1775
25°	1795
30°	1824
35°	1868
40°	1918
45°	1940
50°	1925
55°	1870
60°	1800
65°	1718
70°	1626
75°	1527
80°	1420
85°	1273

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1940 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.5	3.0
10°-20°	88.1	8.5
20°-30°	137.4	13.3
30°-40°	175.3	17.0
40°-50°	193.0	18.7
50°-60°	175.4	17.0
60°-70°	131.6	12.8
70°-80°	76.9	7.5
80°-90°	23.0	2.2
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°	256.1	24.8
0°-40°	431.4	41.8
0°-60°	799.8	77.6
0°-90°	1031.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1031.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	321	
5°	321	31
15°	312	88
25°	298	137
35°	280	175
45°	251	193
55°	196	175
65°	133	132
75°	72	77
85°	20	23
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	321.2
2.5°	321.4
5°	321.2
7.5°	320.1
10°	317.4
12.5°	314.8
15°	311.8
17.5°	308.4
20°	305.1
22.5°	301.4
25°	297.5
27.5°	293.2
30°	288.9
32.5°	284.5
35°	279.9
37.5°	274.7
40°	268.8
42.5°	261.2
45°	250.9
47.5°	239.5
50°	226.3
52.5°	212.0
55°	196.2
57.5°	180.6
60°	164.6
62.5°	148.9
65°	132.8
67.5°	116.9
70°	101.7
72.5°	87.1
75°	72.3
77.5°	58.8
80°	45.1
82.5°	32.3
85°	20.3
87.5°	9.4
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	14.43	16.11	14.80	16.42	16.74	14.43	16.11	14.80	16.42	16.74
	3H	16.21	17.73	16.58	18.05	18.41	16.21	17.73	16.58	18.05	18.41
	4H	16.89	18.33	17.29	18.67	19.05	16.89	18.33	17.29	18.67	19.05
	6H	17.43	18.76	17.84	19.12	19.51	17.43	18.76	17.84	19.12	19.51
	8H	17.61	18.88	18.03	19.27	19.67	17.61	18.88	18.03	19.27	19.67
	12H	17.74	18.96	18.16	19.34	19.76	17.74	18.96	18.16	19.34	19.76
4H	2H	15.06	16.49	15.46	16.84	17.22	15.06	16.49	15.46	16.84	17.22
	3H	17.07	18.27	17.47	18.67	19.07	17.07	18.27	17.47	18.67	19.07
	4H	17.88	18.98	18.31	19.39	19.82	17.88	18.98	18.31	19.39	19.82
	6H	18.55	19.51	19.01	19.95	20.40	18.55	19.51	19.01	19.95	20.40
	8H	18.79	19.68	19.25	20.13	20.59	18.79	19.68	19.25	20.13	20.59
	12H	18.97	19.77	19.45	20.25	20.72	18.97	19.77	19.45	20.25	20.72
8H	4H	18.22	19.11	18.67	19.55	20.02	18.22	19.11	18.67	19.55	20.02
	6H	19.02	19.76	19.51	20.25	20.72	19.02	19.76	19.51	20.25	20.72
	8H	19.33	20.00	19.84	20.51	20.99	19.33	20.00	19.84	20.51	20.99
	12H	19.59	20.19	20.10	20.68	21.23	19.59	20.19	20.10	20.68	21.23
12H	4H	18.26	19.06	18.74	19.54	20.01	18.26	19.06	18.74	19.54	20.01
	6H	19.08	19.76	19.59	20.26	20.75	19.08	19.76	19.59	20.26	20.75
	8H	19.46	20.06	19.96	20.54	21.10	19.46	20.06	19.96	20.54	21.10