

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: P866755

Luminaire Tested: PRLX-2001-L-930-15L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866755
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-930-15L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

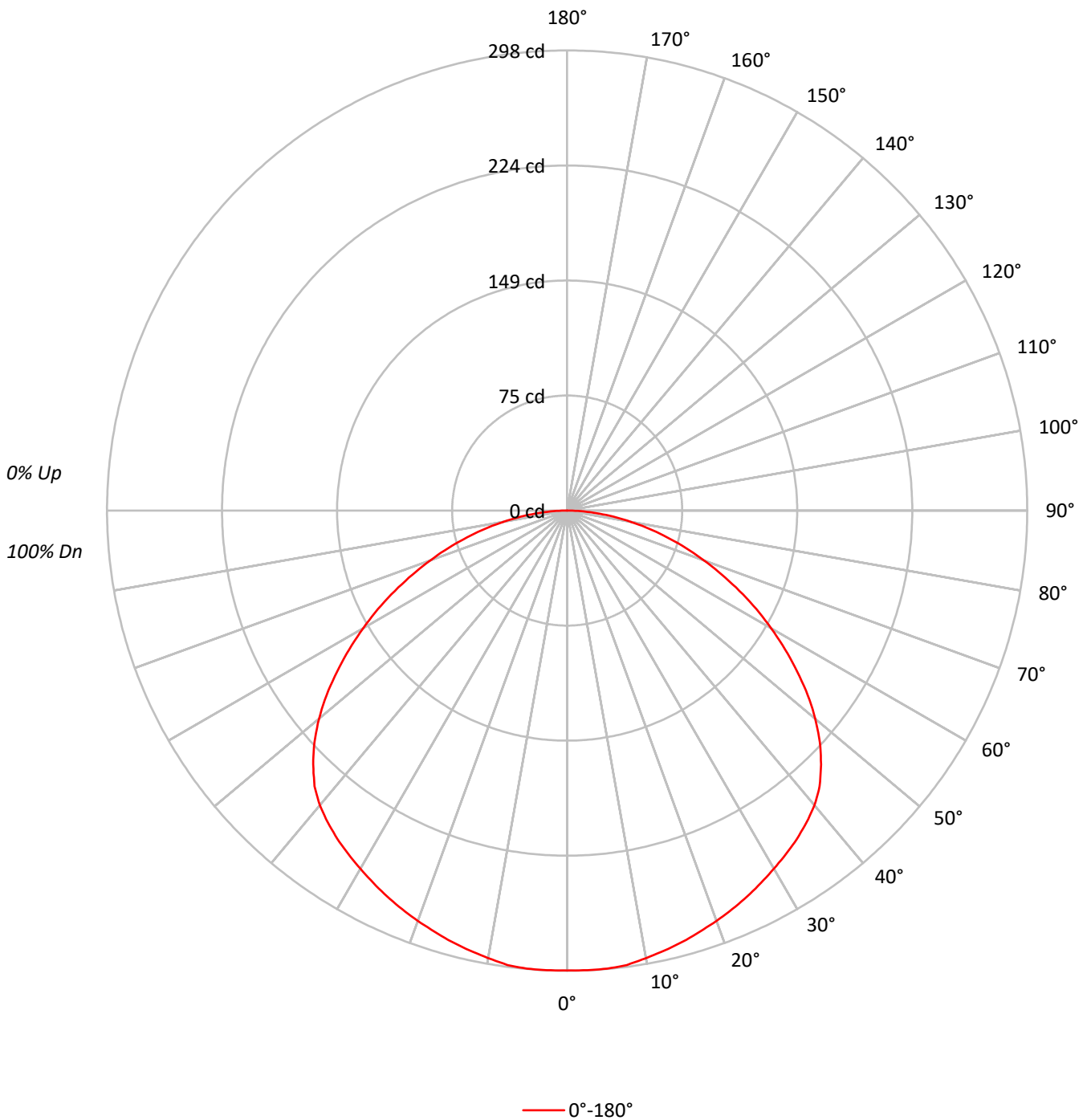
Lumens per Lamp: N/A
Luminaire Lumens: 956.0 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): 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

TEST NUMBER: P866755

CATALOG NUMBER: PRLX-2001-L-930-15L-G-X-X-WHHR-X

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°	1628
5°	1634
10°	1634
15°	1636
20°	1645
25°	1664
30°	1691
35°	1732
40°	1778
45°	1798
50°	1784
55°	1734
60°	1668
65°	1592
70°	1507
75°	1415
80°	1319
85°	1179

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1798 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.3	3.0
10°-20°	81.7	8.5
20°-30°	127.4	13.3
30°-40°	162.5	17.0
40°-50°	178.9	18.7
50°-60°	162.6	17.0
60°-70°	122.0	12.8
70°-80°	71.3	7.5
80°-90°	21.3	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°	237.4	24.8
0°-40°	399.9	41.8
0°-60°	741.4	77.6
0°-90°	956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	956.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	298	
5°	298	28
15°	289	82
25°	276	127
35°	260	163
45°	233	179
55°	182	163
65°	123	122
75°	67	71
85°	19	21
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	297.8
2.5°	297.9
5°	297.8
7.5°	296.8
10°	294.3
12.5°	291.8
15°	289.1
17.5°	285.9
20°	282.8
22.5°	279.4
25°	275.8
27.5°	271.9
30°	267.8
32.5°	263.8
35°	259.5
37.5°	254.6
40°	249.2
42.5°	242.1
45°	232.6
47.5°	222.0
50°	209.8
52.5°	196.5
55°	181.9
57.5°	167.4
60°	152.6
62.5°	138.1
65°	123.1
67.5°	108.4
70°	94.3
72.5°	80.7
75°	67.0
77.5°	54.5
80°	41.9
82.5°	30.0
85°	18.8
87.5°	8.7
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	14.17	15.85	14.53	16.16	16.47	14.17	15.85	14.53	16.16	16.47
	3H	15.94	17.46	16.32	17.79	18.15	15.94	17.46	16.32	17.79	18.15
	4H	16.63	18.06	17.03	18.41	18.78	16.63	18.06	17.03	18.41	18.78
	6H	17.16	18.49	17.57	18.86	19.25	17.16	18.49	17.57	18.86	19.25
	8H	17.35	18.62	17.77	19.01	19.40	17.35	18.62	17.77	19.01	19.40
	12H	17.47	18.69	17.90	19.07	19.50	17.47	18.69	17.90	19.07	19.50
4H	2H	14.80	16.23	15.19	16.58	16.95	14.80	16.23	15.19	16.58	16.95
	3H	16.80	18.01	17.21	18.40	18.80	16.80	18.01	17.21	18.40	18.80
	4H	17.62	18.71	18.05	19.12	19.56	17.62	18.71	18.05	19.12	19.56
	6H	18.29	19.25	18.74	19.69	20.14	18.29	19.25	18.74	19.69	20.14
	8H	18.53	19.42	18.99	19.86	20.33	18.53	19.42	18.99	19.86	20.33
	12H	18.71	19.51	19.18	19.99	20.46	18.71	19.51	19.18	19.99	20.46
8H	4H	17.95	18.85	18.41	19.29	19.75	17.95	18.85	18.41	19.29	19.75
	6H	18.75	19.50	19.25	19.99	20.46	18.75	19.50	19.25	19.99	20.46
	8H	19.07	19.74	19.58	20.25	20.73	19.07	19.74	19.58	20.25	20.73
	12H	19.33	19.93	19.83	20.41	20.97	19.33	19.93	19.83	20.41	20.97
12H	4H	17.99	18.80	18.47	19.27	19.74	17.99	18.80	18.47	19.27	19.74
	6H	18.82	19.49	19.33	20.00	20.48	18.82	19.49	19.33	20.00	20.48
	8H	19.20	19.79	19.70	20.28	20.84	19.20	19.79	19.70	20.28	20.84