

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: P866697

Luminaire Tested: PRLX-2001-L-927-32L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-65)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-927-32L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

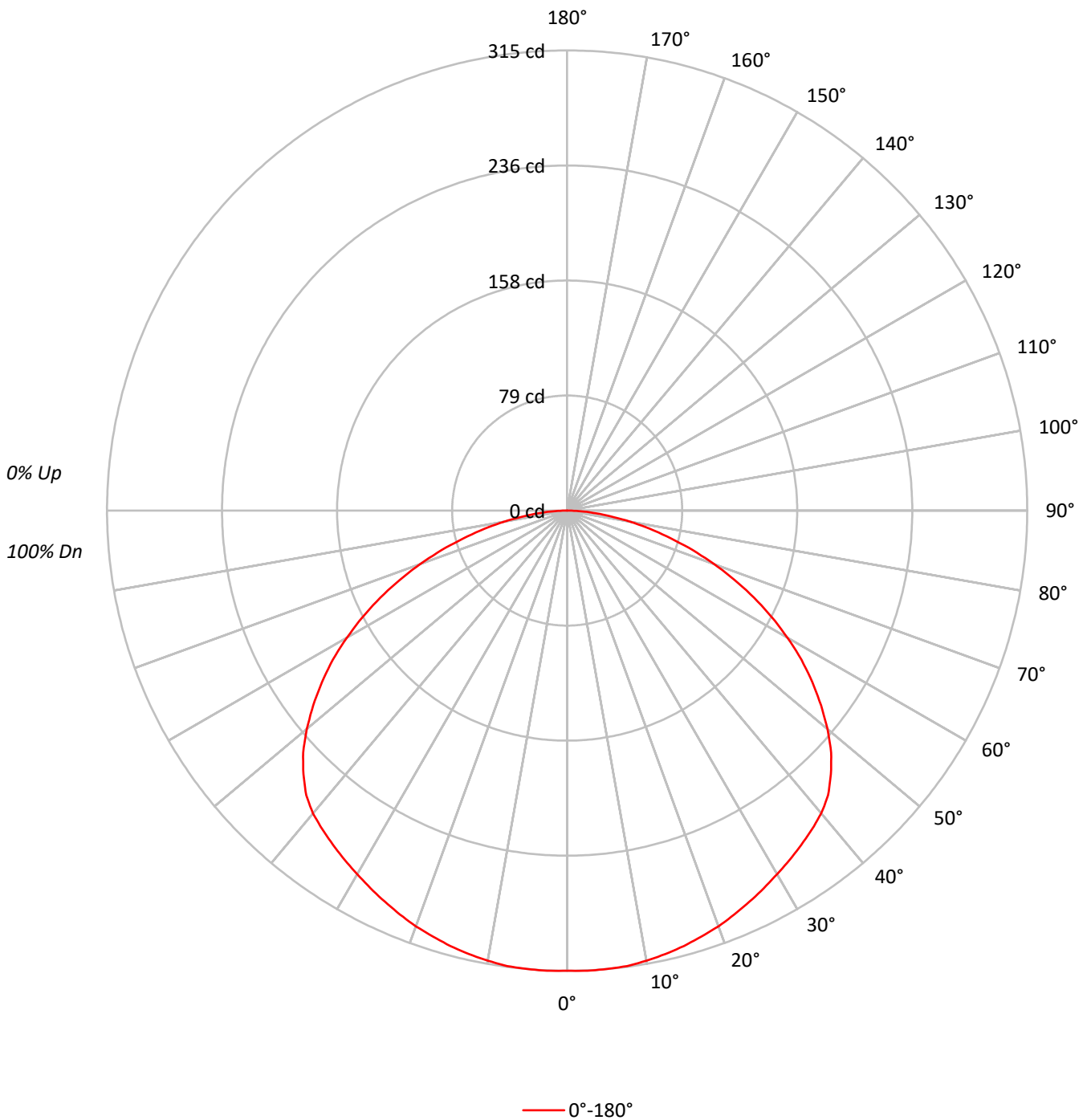
Lumens per Lamp: N/A
Luminaire Lumens: 1046.9 lumens
Efficiency: N/A
Efficacy: 40.1 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
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: 0.333 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	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52		63	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		49	43	38	36
7	63	50	40	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	30	28
9	55	41	33	27	53	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1722
5°	1729
10°	1737
15°	1747
20°	1762
25°	1782
30°	1814
35°	1865
40°	1931
45°	1974
50°	1978
55°	1953
60°	1905
65°	1825
70°	1705
75°	1550
80°	1376
85°	1117

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 1984 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.0	2.9
10°-20°	87.2	8.3
20°-30°	136.5	13.0
30°-40°	175.2	16.7
40°-50°	196.4	18.8
50°-60°	182.9	17.5
60°-70°	139.4	13.3
70°-80°	78.3	7.5
80°-90°	21.0	2.0
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°	253.7	24.2
0°-40°	429.0	41.0
0°-60°	808.3	77.2
0°-90°	1046.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1046.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	315	
5°	315	30
15°	309	87
25°	295	136
35°	279	175
45°	255	196
55°	205	183
65°	141	139
75°	73	78
85°	18	21
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	315.0
2.5°	315.3
5°	315.0
7.5°	314.5
10°	312.9
12.5°	310.9
15°	308.6
17.5°	305.7
20°	302.9
22.5°	299.2
25°	295.4
27.5°	291.5
30°	287.4
32.5°	283.5
35°	279.4
37.5°	275.2
40°	270.6
42.5°	264.4
45°	255.3
47.5°	245.2
50°	232.6
52.5°	219.1
55°	204.9
57.5°	190.2
60°	174.2
62.5°	157.9
65°	141.1
67.5°	124.0
70°	106.7
72.5°	90.2
75°	73.4
77.5°	58.1
80°	43.7
82.5°	29.7
85°	17.8
87.5°	7.8
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	14.73	16.42	15.10	16.73	17.05	14.73	16.42	15.10	16.73	17.05
	3H	16.51	18.04	16.89	18.37	18.73	16.51	18.04	16.89	18.37	18.73
	4H	17.16	18.60	17.56	18.95	19.32	17.16	18.60	17.56	18.95	19.32
	6H	17.63	18.96	18.04	19.33	19.72	17.63	18.96	18.04	19.33	19.72
	8H	17.77	19.05	18.19	19.44	19.83	17.77	19.05	18.19	19.44	19.83
	12H	17.86	19.09	18.29	19.47	19.90	17.86	19.09	18.29	19.47	19.90
4H	2H	15.37	16.81	15.77	17.16	17.54	15.37	16.81	15.77	17.16	17.54
	3H	17.37	18.58	17.78	18.98	19.38	17.37	18.58	17.78	18.98	19.38
	4H	18.14	19.24	18.57	19.65	20.08	18.14	19.24	18.57	19.65	20.08
	6H	18.73	19.69	19.18	20.13	20.58	18.73	19.69	19.18	20.13	20.58
	8H	18.92	19.82	19.38	20.26	20.72	18.92	19.82	19.38	20.26	20.72
	12H	19.05	19.86	19.53	20.33	20.80	19.05	19.86	19.53	20.33	20.80
8H	4H	18.44	19.34	18.90	19.79	20.25	18.44	19.34	18.90	19.79	20.25
	6H	19.15	19.90	19.64	20.39	20.86	19.15	19.90	19.64	20.39	20.86
	8H	19.41	20.08	19.91	20.58	21.07	19.41	20.08	19.91	20.58	21.07
	12H	19.61	20.20	20.11	20.69	21.25	19.61	20.20	20.11	20.69	21.25
12H	4H	18.48	19.29	18.96	19.76	20.23	18.48	19.29	18.96	19.76	20.23
	6H	19.20	19.88	19.71	20.38	20.87	19.20	19.88	19.71	20.38	20.87
	8H	19.51	20.11	20.02	20.60	21.16	19.51	20.11	20.02	20.60	21.16