

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: P866826

Luminaire Tested: PRLX-2001-L-935-32L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-32L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

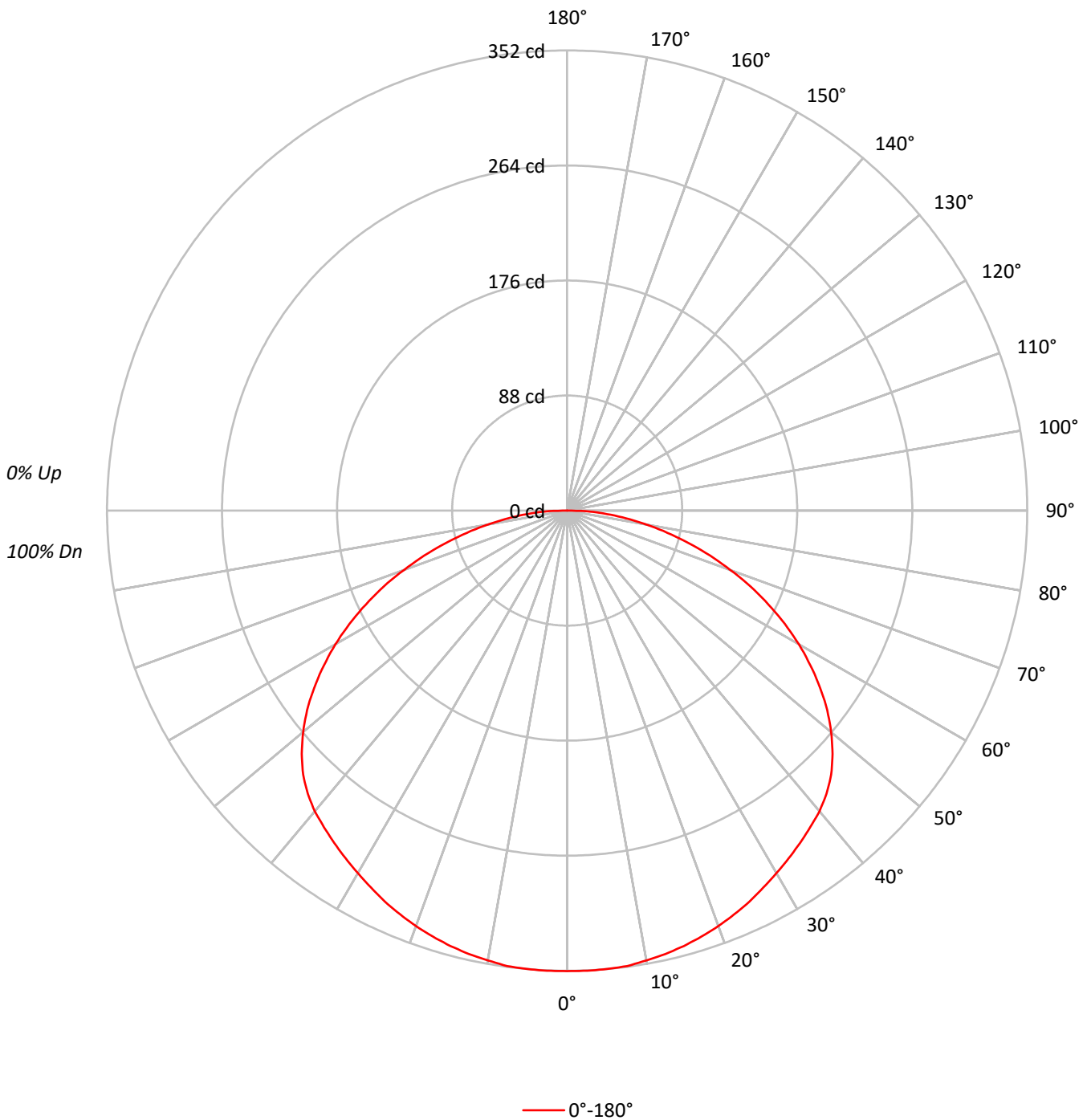
Lumens per Lamp: N/A
Luminaire Lumens: 1212.3 lumens
Efficiency: N/A
Efficacy: 46.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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: 0.5 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	108	103	98	94	105	100	96	92	96	93	89		92	89	87		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33		45	38	32		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1926
5°	1932
10°	1940
15°	1951
20°	1968
25°	1991
30°	2022
35°	2072
40°	2143
45°	2209
50°	2243
55°	2252
60°	2239
65°	2199
70°	2123
75°	2034
80°	1933
85°	1919

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 2252 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.5	2.8
10°-20°	97.5	8.0
20°-30°	152.3	12.6
30°-40°	194.7	16.1
40°-50°	219.7	18.1
50°-60°	210.8	17.4
60°-70°	167.9	13.9
70°-80°	102.0	8.4
80°-90°	33.8	2.8
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°	283.4	23.4
0°-40°	478.1	39.4
0°-60°	908.6	75.0
0°-90°	1212.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1212.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	352	
5°	352	34
15°	345	97
25°	330	152
35°	310	195
45°	286	220
55°	236	211
65°	170	168
75°	96	102
85°	31	34
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	352.3
2.5°	352.3
5°	352.0
7.5°	351.4
10°	349.4
12.5°	347.4
15°	344.8
17.5°	341.7
20°	338.3
22.5°	334.3
25°	330.0
27.5°	325.1
30°	320.3
32.5°	315.4
35°	310.5
37.5°	305.4
40°	300.3
42.5°	293.7
45°	285.7
47.5°	275.4
50°	263.7
52.5°	250.8
55°	236.3
57.5°	220.8
60°	204.8
62.5°	187.7
65°	170.0
67.5°	152.0
70°	132.8
72.5°	114.6
75°	96.3
77.5°	78.6
80°	61.4
82.5°	45.4
85°	30.6
87.5°	17.4
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	15.23	16.94	15.60	17.26	17.57	15.23	16.94	15.60	17.26	17.57
	3H	17.19	18.75	17.57	19.07	19.43	17.19	18.75	17.57	19.07	19.43
	4H	17.95	19.42	18.35	19.77	20.14	17.95	19.42	18.35	19.77	20.14
	6H	18.55	19.92	18.96	20.28	20.67	18.55	19.92	18.96	20.28	20.67
	8H	18.77	20.08	19.19	20.47	20.86	18.77	20.08	19.19	20.47	20.86
	12H	18.94	20.20	19.37	20.58	21.01	18.94	20.20	19.37	20.58	21.01
4H	2H	15.93	17.39	16.32	17.74	18.11	15.93	17.39	16.32	17.74	18.11
	3H	18.11	19.35	18.52	19.74	20.14	18.11	19.35	18.52	19.74	20.14
	4H	19.00	20.13	19.43	20.54	20.98	19.00	20.13	19.43	20.54	20.98
	6H	19.74	20.73	20.19	21.17	21.62	19.74	20.73	20.19	21.17	21.62
	8H	20.02	20.95	20.48	21.39	21.85	20.02	20.95	20.48	21.39	21.85
	12H	20.25	21.09	20.73	21.56	22.03	20.25	21.09	20.73	21.56	22.03
8H	4H	19.37	20.30	19.83	20.74	21.20	19.37	20.30	19.83	20.74	21.20
	6H	20.25	21.03	20.74	21.51	21.99	20.25	21.03	20.74	21.51	21.99
	8H	20.62	21.32	21.12	21.82	22.30	20.62	21.32	21.12	21.82	22.30
	12H	20.95	21.57	21.45	22.06	22.61	20.95	21.57	21.45	22.06	22.61
12H	4H	19.42	20.26	19.90	20.73	21.20	19.42	20.26	19.90	20.73	21.20
	6H	20.33	21.03	20.84	21.54	22.02	20.33	21.03	20.84	21.54	22.02
	8H	20.77	21.39	21.27	21.88	22.44	20.77	21.39	21.27	21.88	22.44