

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: P866886

Luminaire Tested: PRLX-2001-L-940-32L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-78)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-940-32L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

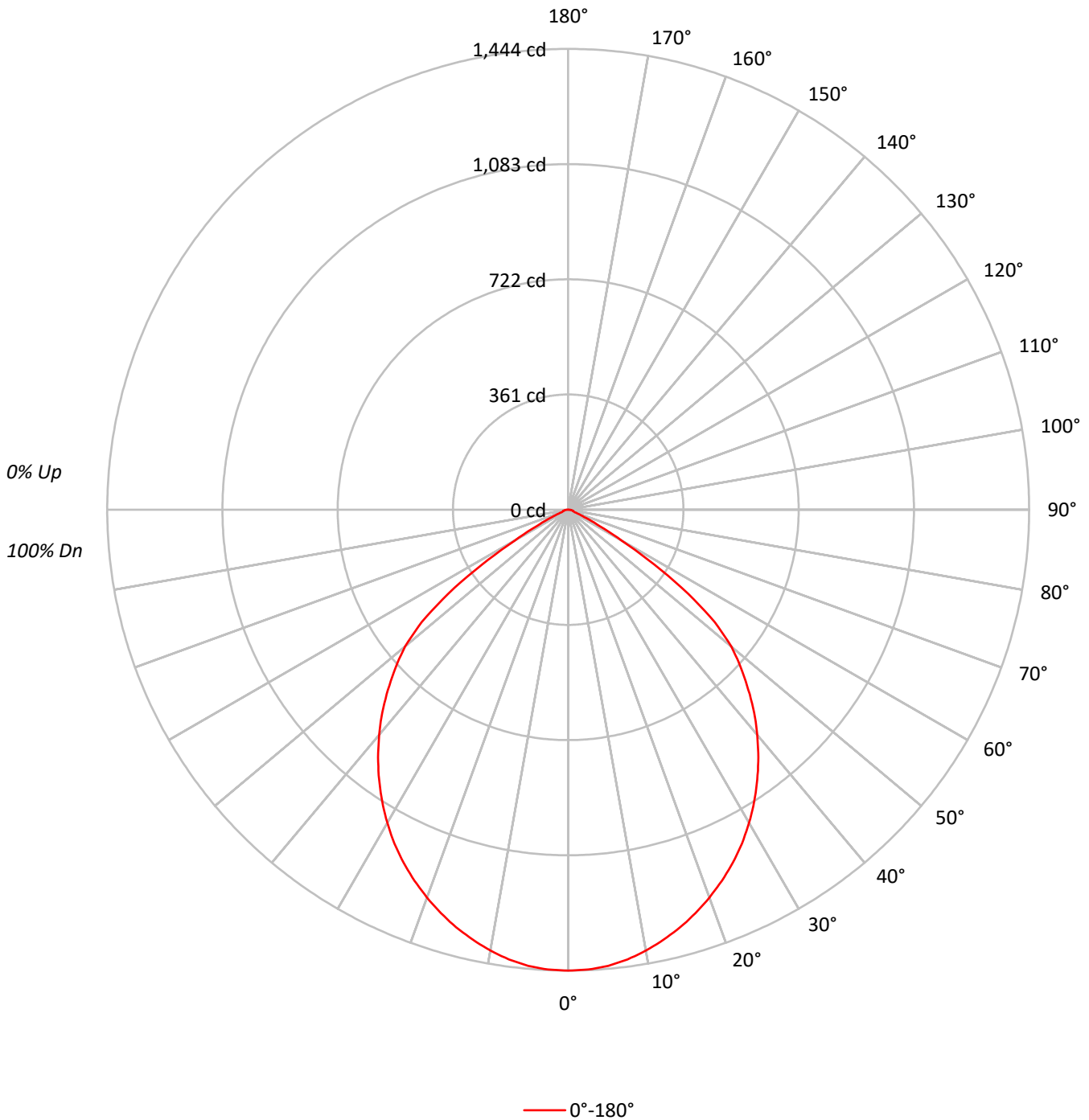
Lumens per Lamp: N/A
Luminaire Lumens: 2836.4 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65		73	68	64		71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51		61	55	51		60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41		52	46	41		51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34		44	38	34		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7895
5°	7873
10°	7787
15°	7669
20°	7525
25°	7362
30°	7155
35°	6891
40°	6571
45°	6170
50°	5669
55°	4378
60°	2117
65°	798
70°	315
75°	346
80°	394
85°	452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6170 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	4.8
10°-20°	381.7	13.5
20°-30°	561.5	19.8
30°-40°	644.9	22.7
40°-50°	614.7	21.7
50°-60°	396.8	14.0
60°-70°	76.2	2.7
70°-80°	17.2	0.6
80°-90°	7.4	0.3
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°	1079.2	38.0
0°-40°	1724.0	60.8
0°-60°	2735.6	96.4
0°-90°	2836.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2836.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1444	
5°	1435	136
15°	1355	382
25°	1220	561
35°	1033	645
45°	798	615
55°	459	397
65°	62	76
75°	16	17
85°	7	7
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1444.2
2.5°	1442.4
5°	1434.6
7.5°	1421.5
10°	1402.7
12.5°	1380.3
15°	1355.0
17.5°	1325.7
20°	1293.5
22.5°	1258.0
25°	1220.5
27.5°	1179.0
30°	1133.4
32.5°	1084.5
35°	1032.6
37.5°	978.6
40°	920.7
42.5°	862.6
45°	798.1
47.5°	734.6
50°	666.6
52.5°	578.6
55°	459.3
57.5°	320.0
60°	193.6
62.5°	111.0
65°	61.7
67.5°	32.2
70°	19.7
72.5°	17.9
75°	16.4
77.5°	14.6
80°	12.5
82.5°	10.1
85°	7.2
87.5°	3.6
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	15.08	16.48	15.45	16.80	17.11	15.08	16.48	15.45	16.80	17.11
	3H	15.01	16.24	15.39	16.57	16.93	15.01	16.24	15.39	16.57	16.93
	4H	14.96	16.11	15.36	16.46	16.84	14.96	16.11	15.36	16.46	16.84
	6H	14.92	15.97	15.33	16.34	16.73	14.92	15.97	15.33	16.34	16.73
	8H	14.89	15.89	15.32	16.28	16.68	14.89	15.89	15.32	16.28	16.68
	12H	14.87	15.82	15.30	16.20	16.63	14.87	15.82	15.30	16.20	16.63
4H	2H	14.96	16.11	15.36	16.46	16.84	14.96	16.11	15.36	16.46	16.84
	3H	14.90	15.83	15.32	16.23	16.63	14.90	15.83	15.32	16.23	16.63
	4H	14.86	15.68	15.29	16.10	16.54	14.86	15.68	15.29	16.10	16.54
	6H	14.83	15.54	15.29	15.98	16.45	14.83	15.54	15.29	15.98	16.45
	8H	14.80	15.47	15.27	15.91	16.38	14.80	15.47	15.27	15.91	16.38
	12H	14.79	15.37	15.27	15.86	16.33	14.79	15.37	15.27	15.86	16.33
8H	4H	14.75	15.41	15.21	15.86	16.33	14.75	15.41	15.21	15.86	16.33
	6H	14.72	15.26	15.22	15.76	16.24	14.72	15.26	15.22	15.76	16.24
	8H	14.70	15.19	15.22	15.71	16.20	14.70	15.19	15.22	15.71	16.20
	12H	14.69	15.14	15.21	15.63	16.20	14.69	15.14	15.21	15.63	16.20
12H	4H	14.71	15.29	15.19	15.78	16.25	14.71	15.29	15.19	15.78	16.25
	6H	14.66	15.16	15.18	15.67	16.16	14.66	15.16	15.18	15.67	16.16
	8H	14.67	15.11	15.18	15.61	16.17	14.67	15.11	15.18	15.61	16.17