

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: P866891

Luminaire Tested: PRLX-2001-L-940-32L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866891
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: Pentalux
Catalog Number: PRLX-2001-L-940-32L-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 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

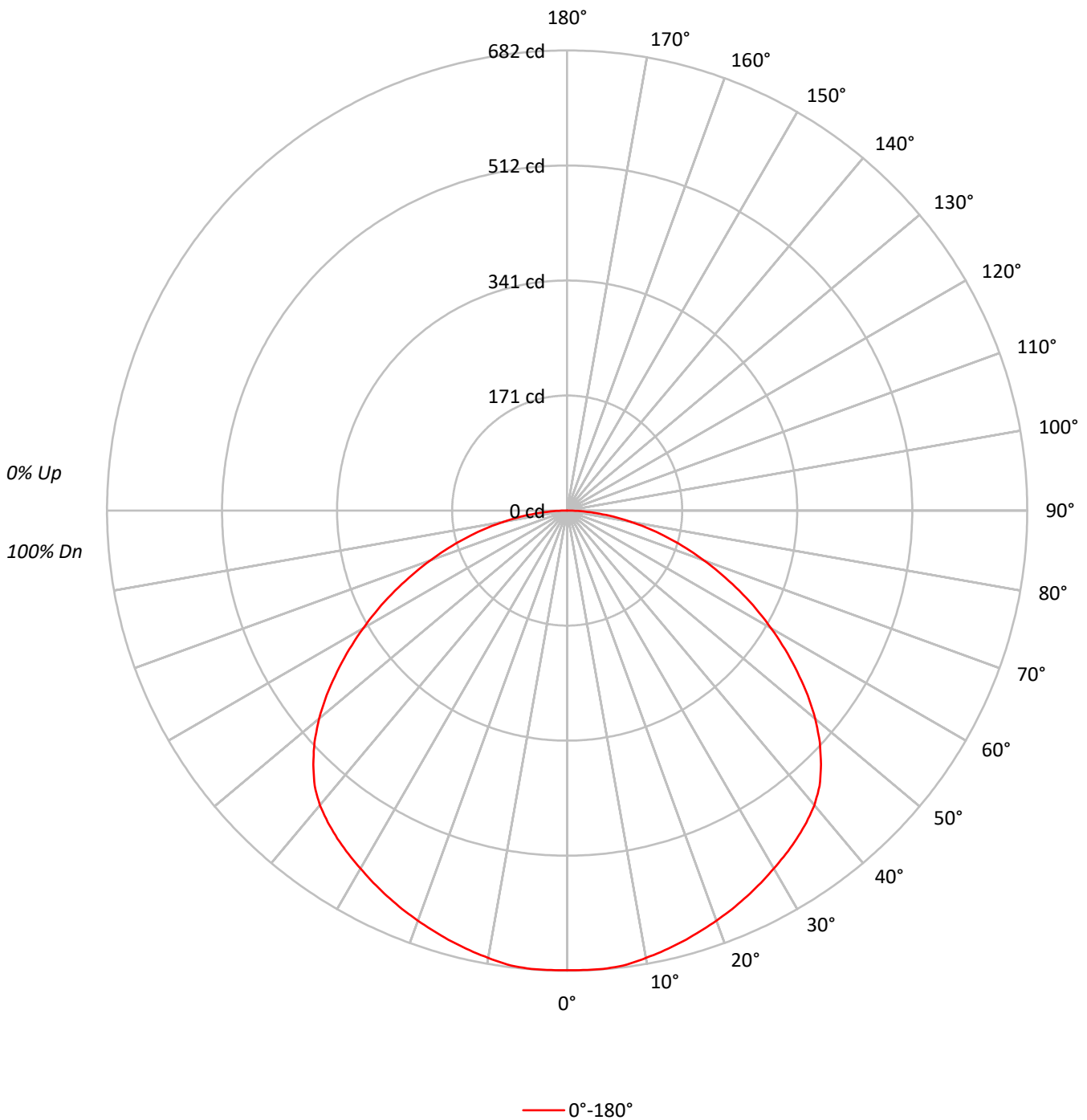
Lumens per Lamp: N/A
Luminaire Lumens: 2186.8 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3724
5°	3738
10°	3737
15°	3742
20°	3763
25°	3805
30°	3867
35°	3961
40°	4068
45°	4114
50°	4082
55°	3966
60°	3816
65°	3643
70°	3446
75°	3238
80°	3013
85°	2691

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4114 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	3.0
10°-20°	186.9	8.5
20°-30°	291.3	13.3
30°-40°	371.8	17.0
40°-50°	409.3	18.7
50°-60°	371.9	17.0
60°-70°	279.0	12.8
70°-80°	163.0	7.5
80°-90°	48.8	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°	543.0	24.8
0°-40°	914.8	41.8
0°-60°	1696.0	77.6
0°-90°	2186.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2186.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	681	
5°	681	65
15°	661	187
25°	631	291
35°	594	372
45°	532	409
55°	416	372
65°	282	279
75°	153	163
85°	43	49
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	681.2
2.5°	681.5
5°	681.2
7.5°	678.8
10°	673.2
12.5°	667.5
15°	661.2
17.5°	654.1
20°	646.9
22.5°	639.2
25°	630.8
27.5°	621.9
30°	612.6
32.5°	603.4
35°	593.5
37.5°	582.5
40°	570.0
42.5°	553.9
45°	532.1
47.5°	507.9
50°	479.9
52.5°	449.5
55°	416.1
57.5°	383.0
60°	349.0
62.5°	315.9
65°	281.6
67.5°	247.9
70°	215.6
72.5°	184.6
75°	153.3
77.5°	124.7
80°	95.7
82.5°	68.6
85°	42.9
87.5°	20.0
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	17.05	18.72	17.41	19.04	19.35	17.05	18.72	17.41	19.04	19.35
	3H	18.82	20.34	19.20	20.66	21.02	18.82	20.34	19.20	20.66	21.02
	4H	19.50	20.94	19.90	21.28	21.66	19.50	20.94	19.90	21.28	21.66
	6H	20.04	21.37	20.45	21.73	22.12	20.04	21.37	20.45	21.73	22.12
	8H	20.22	21.49	20.64	21.88	22.28	20.22	21.49	20.64	21.88	22.28
	12H	20.35	21.57	20.78	21.95	22.38	20.35	21.57	20.78	21.95	22.38
4H	2H	17.67	19.11	18.07	19.45	19.83	17.67	19.11	18.07	19.45	19.83
	3H	19.68	20.88	20.09	21.28	21.68	19.68	20.88	20.09	21.28	21.68
	4H	20.50	21.59	20.93	22.00	22.43	20.50	21.59	20.93	22.00	22.43
	6H	21.17	22.12	21.62	22.56	23.02	21.17	22.12	21.62	22.56	23.02
	8H	21.40	22.30	21.86	22.74	23.20	21.40	22.30	21.86	22.74	23.20
	12H	21.58	22.39	22.06	22.86	23.33	21.58	22.39	22.06	22.86	23.33
8H	4H	20.83	21.72	21.28	22.16	22.63	20.83	21.72	21.28	22.16	22.63
	6H	21.63	22.38	22.12	22.86	23.34	21.63	22.38	22.12	22.86	23.34
	8H	21.94	22.61	22.45	23.12	23.60	21.94	22.61	22.45	23.12	23.60
	12H	22.20	22.80	22.71	23.29	23.85	22.20	22.80	22.71	23.29	23.85
12H	4H	20.87	21.68	21.35	22.15	22.62	20.87	21.68	21.35	22.15	22.62
	6H	21.70	22.37	22.20	22.87	23.36	21.70	22.37	22.20	22.87	23.36
	8H	22.07	22.67	22.58	23.16	23.72	22.07	22.67	22.58	23.16	23.72