

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: P867399

Luminaire Tested: PRLX-2004-L-940-32L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-84)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-940-32L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

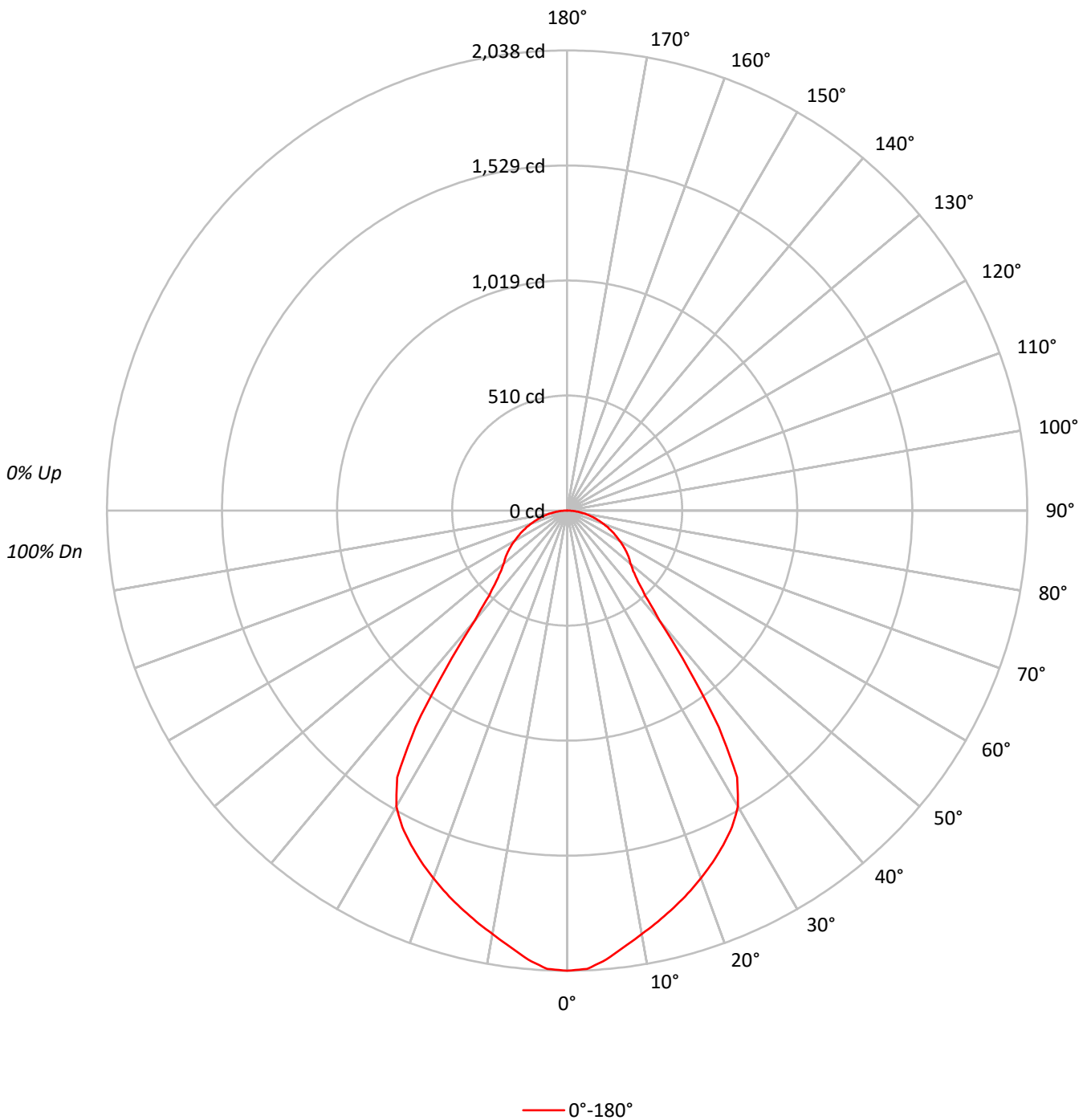
Lumens per Lamp: N/A
Luminaire Lumens: 3185.8 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	111	107	103	100	108	105	101	98	100	98	95		97	94	92		93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	82		87	84	81		85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77	73	70	68
4	89	79	71	66	87	77	70	65	75	69	64		73	68	63		71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58		67	61	57		65	60	57	55
6	78	66	58	53	76	65	58	53	63	57	52		62	56	52		60	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48		57	52	47		56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37		47	41	37		46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10054
5°	9884
10°	9541
15°	9302
20°	9095
25°	8899
30°	8619
35°	7056
40°	4098
45°	3099
50°	2816
55°	2768
60°	2669
65°	2563
70°	2461
75°	2354
80°	2253
85°	2162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3099 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.4	5.9
10°-20°	513.5	16.1
20°-30°	752.0	23.6
30°-40°	699.2	21.9
40°-50°	356.2	11.2
50°-60°	286.6	9.0
60°-70°	217.6	6.8
70°-80°	131.1	4.1
80°-90°	42.1	1.3
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°	1453.0	45.6
0°-40°	2152.2	67.6
0°-60°	2795.0	87.7
0°-90°	3185.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3185.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2038	
5°	1996	187
15°	1821	514
25°	1635	752
35°	1172	699
45°	444	356
55°	322	287
65°	220	218
75°	124	131
85°	38	42
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2037.7
2.5°	2031.7
5°	1995.6
7.5°	1947.3
10°	1904.4
12.5°	1863.5
15°	1821.1
17.5°	1778.2
20°	1732.3
22.5°	1685.7
25°	1634.7
27.5°	1581.1
30°	1512.8
32.5°	1400.3
35°	1171.5
37.5°	879.3
40°	636.2
42.5°	511.5
45°	444.1
47.5°	396.7
50°	366.9
52.5°	345.4
55°	321.8
57.5°	295.6
60°	270.5
62.5°	244.6
65°	219.5
67.5°	194.8
70°	170.6
72.5°	147.0
75°	123.5
77.5°	101.4
80°	79.3
82.5°	58.8
85°	38.2
87.5°	18.2
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	14.00	15.35	14.36	15.67	15.98	14.00	15.35	14.36	15.67	15.98
	3H	15.80	17.01	16.18	17.34	17.70	15.80	17.01	16.18	17.34	17.70
	4H	16.50	17.64	16.91	17.99	18.37	16.50	17.64	16.91	17.99	18.37
	6H	17.06	18.11	17.48	18.48	18.87	17.06	18.11	17.48	18.48	18.87
	8H	17.26	18.26	17.69	18.65	19.05	17.26	18.26	17.69	18.65	19.05
	12H	17.41	18.36	17.84	18.74	19.17	17.41	18.36	17.84	18.74	19.17
4H	2H	14.58	15.72	14.99	16.07	16.45	14.58	15.72	14.99	16.07	16.45
	3H	16.61	17.55	17.02	17.95	18.36	16.61	17.55	17.02	17.95	18.36
	4H	17.45	18.30	17.88	18.72	19.16	17.45	18.30	17.88	18.72	19.16
	6H	18.14	18.88	18.61	19.33	19.79	18.14	18.88	18.61	19.33	19.79
	8H	18.40	19.09	18.87	19.53	20.00	18.40	19.09	18.87	19.53	20.00
	12H	18.60	19.21	19.08	19.69	20.16	18.60	19.21	19.08	19.69	20.16
8H	4H	17.75	18.44	18.22	18.89	19.36	17.75	18.44	18.22	18.89	19.36
	6H	18.59	19.16	19.09	19.65	20.13	18.59	19.16	19.09	19.65	20.13
	8H	18.94	19.45	19.46	19.96	20.45	18.94	19.45	19.46	19.96	20.45
	12H	19.24	19.68	19.75	20.17	20.74	19.24	19.68	19.75	20.17	20.74
12H	4H	17.78	18.39	18.26	18.87	19.35	17.78	18.39	18.26	18.87	19.35
	6H	18.66	19.16	19.18	19.68	20.17	18.66	19.16	19.18	19.68	20.17
	8H	19.07	19.52	19.58	20.01	20.58	19.07	19.52	19.58	20.01	20.58