

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: P867143

Luminaire Tested: PRLX-2002-L-940-32L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-80)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-940-32L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

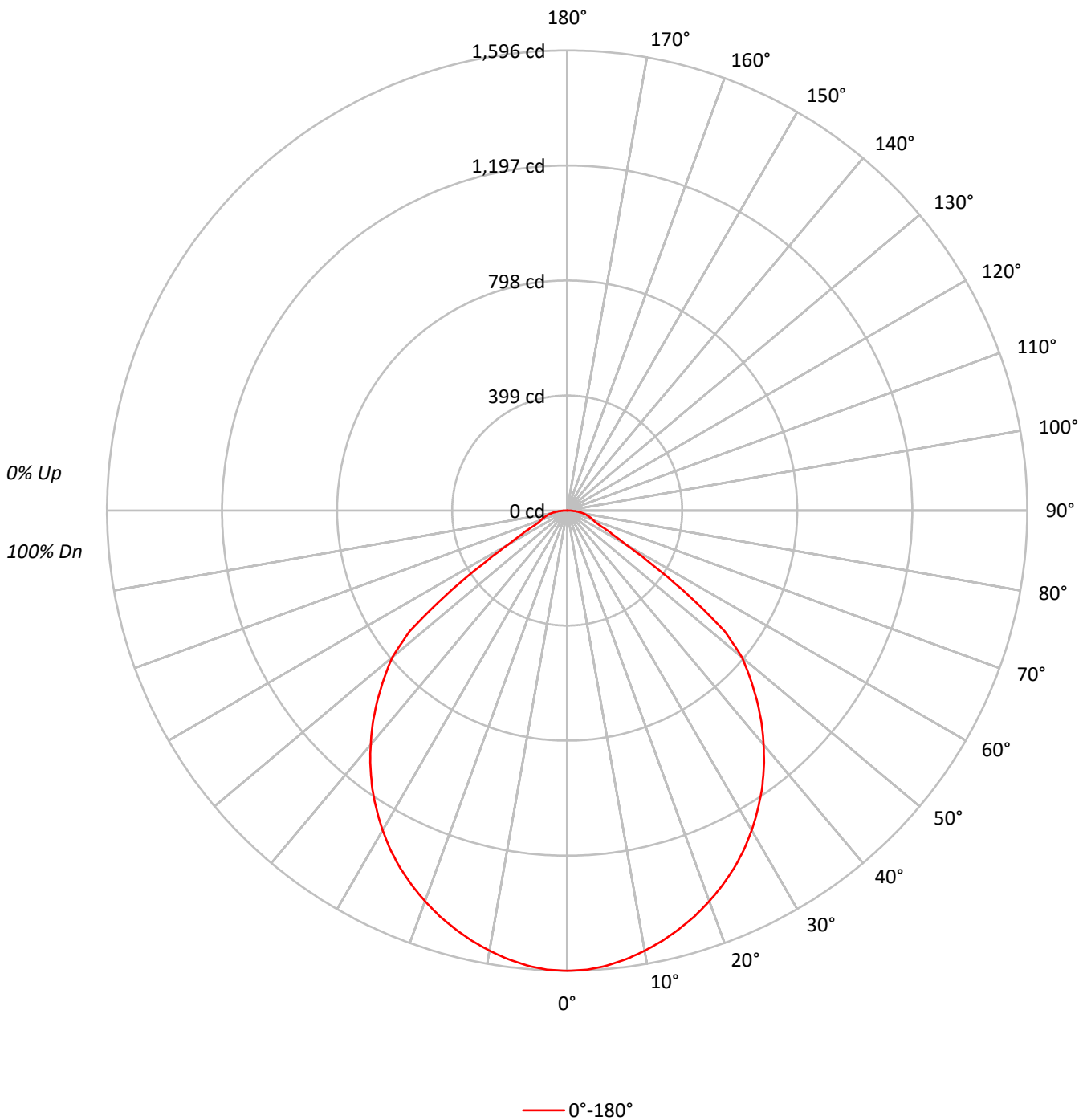
Lumens per Lamp: N/A
Luminaire Lumens: 3371.8 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: 0.333 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	111	107	103	100	108	105	101	99	101	98	96		97	95	93		93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62		71	66	62		69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	54		63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49		59	53	48		58	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44		54	48	43		53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39		50	44	39		49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36		46	40	36		45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7876
5°	7846
10°	7765
15°	7672
20°	7569
25°	7451
30°	7293
35°	7094
40°	6829
45°	6491
50°	6074
55°	4449
60°	2325
65°	1549
70°	1385
75°	1472
80°	1611
85°	1772

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6491 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	4.5
10°-20°	423.6	12.6
20°-30°	630.0	18.7
30°-40°	735.4	21.8
40°-50°	716.5	21.2
50°-60°	459.0	13.6
60°-70°	142.9	4.2
70°-80°	81.4	2.4
80°-90°	32.9	1.0
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°	1203.8	35.7
0°-40°	1939.1	57.5
0°-60°	3114.6	92.4
0°-90°	3371.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3371.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1596	
5°	1584	150
15°	1502	424
25°	1369	630
35°	1178	735
45°	930	716
55°	517	459
65°	133	143
75°	77	81
85°	31	33
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1596.3
2.5°	1593.9
5°	1584.3
7.5°	1569.4
10°	1550.0
12.5°	1528.3
15°	1502.0
17.5°	1474.0
20°	1441.5
22.5°	1406.6
25°	1368.7
27.5°	1326.9
30°	1280.1
32.5°	1230.3
35°	1177.8
37.5°	1121.1
40°	1060.3
42.5°	997.4
45°	930.3
47.5°	861.7
50°	791.3
52.5°	688.7
55°	517.2
57.5°	350.2
60°	235.6
62.5°	175.7
65°	132.7
67.5°	105.3
70°	96.0
72.5°	87.4
75°	77.2
77.5°	67.4
80°	56.7
82.5°	44.7
85°	31.3
87.5°	16.7
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	14.72	16.18	15.09	16.49	16.80	14.72	16.18	15.09	16.49	16.80
	3H	15.14	16.43	15.52	16.76	17.12	15.14	16.43	15.52	16.76	17.12
	4H	15.42	16.63	15.82	16.97	17.36	15.42	16.63	15.82	16.97	17.36
	6H	15.74	16.85	16.15	17.22	17.61	15.74	16.85	16.15	17.22	17.61
	8H	15.89	16.94	16.31	17.33	17.73	15.89	16.94	16.31	17.33	17.73
	12H	16.01	17.02	16.44	17.40	17.83	16.01	17.02	16.44	17.40	17.83
4H	2H	14.78	15.98	15.18	16.33	16.71	14.78	15.98	15.18	16.33	16.71
	3H	15.39	16.38	15.81	16.78	17.18	15.39	16.38	15.81	16.78	17.18
	4H	15.82	16.70	16.25	17.11	17.56	15.82	16.70	16.25	17.11	17.56
	6H	16.31	17.07	16.77	17.52	17.98	16.31	17.07	16.77	17.52	17.98
	8H	16.53	17.24	17.00	17.69	18.16	16.53	17.24	17.00	17.69	18.16
	12H	16.73	17.37	17.22	17.85	18.32	16.73	17.37	17.22	17.85	18.32
8H	4H	15.96	16.68	16.43	17.12	17.59	15.96	16.68	16.43	17.12	17.59
	6H	16.59	17.19	17.09	17.68	18.16	16.59	17.19	17.09	17.68	18.16
	8H	16.91	17.45	17.43	17.96	18.45	16.91	17.45	17.43	17.96	18.45
	12H	17.22	17.70	17.73	18.19	18.76	17.22	17.70	17.73	18.19	18.76
12H	4H	15.98	16.61	16.46	17.09	17.57	15.98	16.61	16.46	17.09	17.57
	6H	16.64	17.18	17.16	17.69	18.18	16.64	17.18	17.16	17.69	18.18
	8H	17.02	17.51	17.54	18.00	18.56	17.02	17.51	17.54	18.00	18.56