

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: P867007

Luminaire Tested: PRLX-2002-L-930-15L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867007
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-930-15L-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 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

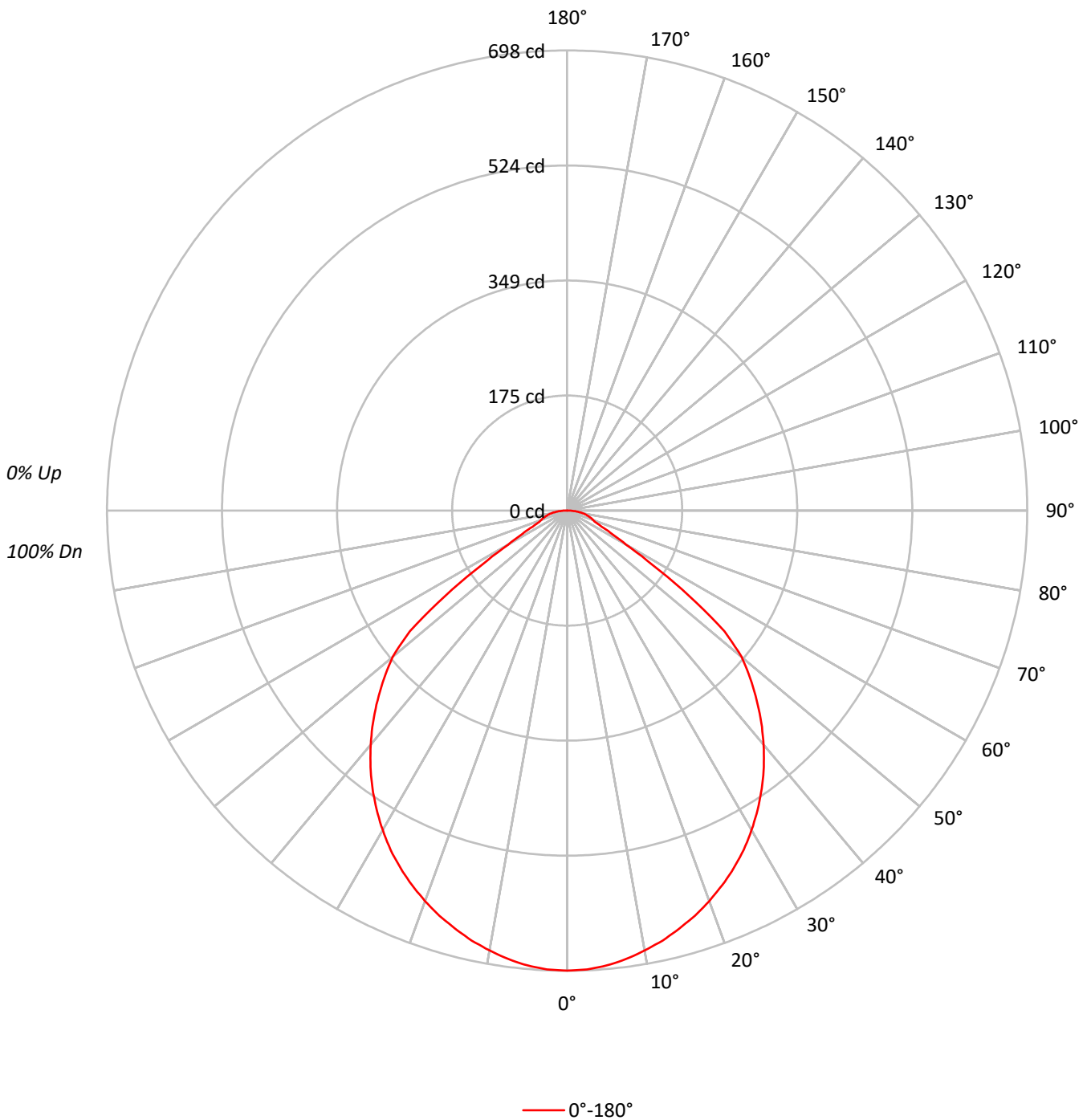
Lumens per Lamp: N/A
Luminaire Lumens: 1474.1 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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	72	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°	3443
5°	3430
10°	3395
15°	3354
20°	3309
25°	3257
30°	3188
35°	3101
40°	2985
45°	2838
50°	2655
55°	1945
60°	1016
65°	677
70°	606
75°	644
80°	705
85°	776

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2838 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	4.5
10°-20°	185.2	12.6
20°-30°	275.4	18.7
30°-40°	321.5	21.8
40°-50°	313.2	21.2
50°-60°	200.7	13.6
60°-70°	62.5	4.2
70°-80°	35.6	2.4
80°-90°	14.4	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°	526.2	35.7
0°-40°	847.7	57.5
0°-60°	1361.6	92.4
0°-90°	1474.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1474.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	698	
5°	693	66
15°	657	185
25°	598	275
35°	515	321
45°	407	313
55°	226	201
65°	58	62
75°	34	36
85°	14	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	697.8
2.5°	696.8
5°	692.6
7.5°	686.1
10°	677.6
12.5°	668.1
15°	656.6
17.5°	644.4
20°	630.2
22.5°	614.9
25°	598.3
27.5°	580.1
30°	559.6
32.5°	537.8
35°	514.9
37.5°	490.1
40°	463.5
42.5°	436.0
45°	406.7
47.5°	376.7
50°	345.9
52.5°	301.1
55°	226.1
57.5°	153.1
60°	103.0
62.5°	76.8
65°	58.0
67.5°	46.0
70°	42.0
72.5°	38.2
75°	33.8
77.5°	29.5
80°	24.8
82.5°	19.6
85°	13.7
87.5°	7.3
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	11.85	13.30	12.21	13.61	13.93	11.85	13.30	12.21	13.61	13.93
	3H	12.26	13.55	12.64	13.88	14.24	12.26	13.55	12.64	13.88	14.24
	4H	12.55	13.75	12.95	14.10	14.48	12.55	13.75	12.95	14.10	14.48
	6H	12.87	13.97	13.28	14.34	14.74	12.87	13.97	13.28	14.34	14.74
	8H	13.01	14.07	13.44	14.46	14.86	13.01	14.07	13.44	14.46	14.86
	12H	13.14	14.15	13.57	14.53	14.96	13.14	14.15	13.57	14.53	14.96
4H	2H	11.90	13.11	12.31	13.46	13.84	11.90	13.11	12.31	13.46	13.84
	3H	12.52	13.50	12.93	13.90	14.31	12.52	13.50	12.93	13.90	14.31
	4H	12.94	13.82	13.38	14.24	14.68	12.94	13.82	13.38	14.24	14.68
	6H	13.44	14.20	13.90	14.64	15.11	13.44	14.20	13.90	14.64	15.11
	8H	13.66	14.37	14.12	14.82	15.29	13.66	14.37	14.12	14.82	15.29
	12H	13.86	14.50	14.34	14.98	15.45	13.86	14.50	14.34	14.98	15.45
8H	4H	13.09	13.80	13.55	14.25	14.72	13.09	13.80	13.55	14.25	14.72
	6H	13.72	14.31	14.22	14.81	15.29	13.72	14.31	14.22	14.81	15.29
	8H	14.04	14.58	14.56	15.09	15.58	14.04	14.58	14.56	15.09	15.58
	12H	14.35	14.83	14.86	15.32	15.89	14.35	14.83	14.86	15.32	15.89
12H	4H	13.10	13.74	13.59	14.22	14.69	13.10	13.74	13.59	14.22	14.69
	6H	13.77	14.31	14.28	14.82	15.31	13.77	14.31	14.28	14.82	15.31
	8H	14.15	14.63	14.66	15.13	15.69	14.15	14.63	14.66	15.13	15.69