

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: P866982

Luminaire Tested: PRLX-2002-L-930-100L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-930-100L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

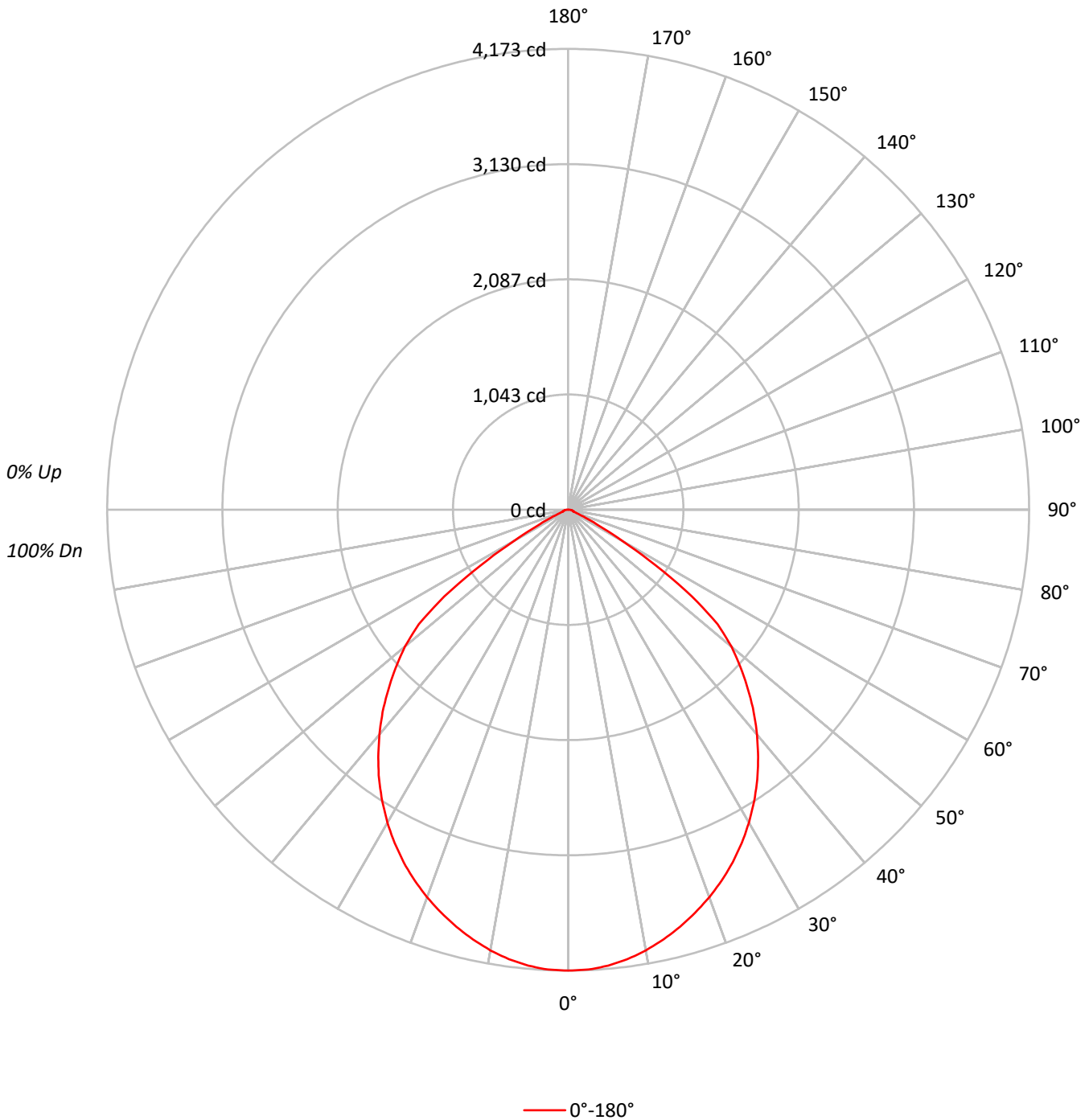
Lumens per Lamp: N/A
Luminaire Lumens: 8201.9 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
Input Voltage (V): 120
Input Current (Ain): 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	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	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	34	45	39	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20589
5°	20527
10°	20299
15°	19974
20°	19610
25°	19179
30°	18639
35°	17979
40°	17118
45°	16064
50°	14803
55°	11768
60°	5539
65°	2000
70°	770
75°	854
80°	977
85°	1172

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16064 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.7	4.8
10°-20°	1102.0	13.4
20°-30°	1621.0	19.8
30°-40°	1862.3	22.7
40°-50°	1773.8	21.6
50°-60°	1166.5	14.2
60°-70°	215.4	2.6
70°-80°	47.1	0.6
80°-90°	21.1	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°	3115.7	38.0
0°-40°	4978.0	60.7
0°-60°	7918.2	96.5
0°-90°	8201.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8201.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4173	
5°	4145	393
15°	3910	1102
25°	3523	1621
35°	2985	1862
45°	2302	1774
55°	1368	1166
65°	171	215
75°	45	47
85°	21	21
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4173.1
2.5°	4168.8
5°	4144.7
7.5°	4105.9
10°	4051.7
12.5°	3985.4
15°	3910.5
17.5°	3826.1
20°	3734.9
22.5°	3633.3
25°	3523.1
27.5°	3402.5
30°	3271.7
32.5°	3131.3
35°	2985.0
37.5°	2824.8
40°	2657.8
42.5°	2486.5
45°	2302.2
47.5°	2119.7
50°	1928.6
52.5°	1704.7
55°	1368.1
57.5°	937.6
60°	561.3
62.5°	316.0
65°	171.3
67.5°	86.1
70°	53.4
72.5°	49.1
75°	44.8
77.5°	40.5
80°	34.4
82.5°	28.4
85°	20.7
87.5°	11.2
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	18.50	19.90	18.87	20.22	20.53	18.50	19.90	18.87	20.22	20.53
	3H	18.42	19.65	18.80	19.98	20.35	18.42	19.65	18.80	19.98	20.35
	4H	18.37	19.52	18.77	19.87	20.25	18.37	19.52	18.77	19.87	20.25
	6H	18.32	19.38	18.74	19.74	20.14	18.32	19.38	18.74	19.74	20.14
	8H	18.30	19.29	18.73	19.68	20.09	18.30	19.29	18.73	19.68	20.09
	12H	18.27	19.22	18.70	19.61	20.04	18.27	19.22	18.70	19.61	20.04
4H	2H	18.38	19.52	18.78	19.87	20.26	18.38	19.52	18.78	19.87	20.26
	3H	18.31	19.23	18.72	19.64	20.04	18.31	19.23	18.72	19.64	20.04
	4H	18.26	19.08	18.69	19.50	19.94	18.26	19.08	18.69	19.50	19.94
	6H	18.23	18.93	18.69	19.38	19.84	18.23	18.93	18.69	19.38	19.84
	8H	18.20	18.86	18.66	19.31	19.78	18.20	18.86	18.66	19.31	19.78
	12H	18.18	18.77	18.66	19.25	19.72	18.18	18.77	18.66	19.25	19.72
8H	4H	18.14	18.81	18.61	19.25	19.72	18.14	18.81	18.61	19.25	19.72
	6H	18.10	18.65	18.61	19.15	19.63	18.10	18.65	18.61	19.15	19.63
	8H	18.08	18.58	18.60	19.09	19.58	18.08	18.58	18.60	19.09	19.58
	12H	18.08	18.52	18.59	19.02	19.59	18.08	18.52	18.59	19.02	19.59
12H	4H	18.10	18.69	18.59	19.17	19.65	18.10	18.69	18.59	19.17	19.65
	6H	18.05	18.55	18.57	19.06	19.55	18.05	18.55	18.57	19.06	19.55
	8H	18.05	18.50	18.56	18.99	19.56	18.05	18.50	18.56	18.99	19.56