

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: P867100

Luminaire Tested: PRLX-2002-L-935-83L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-83)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-935-83L-L-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

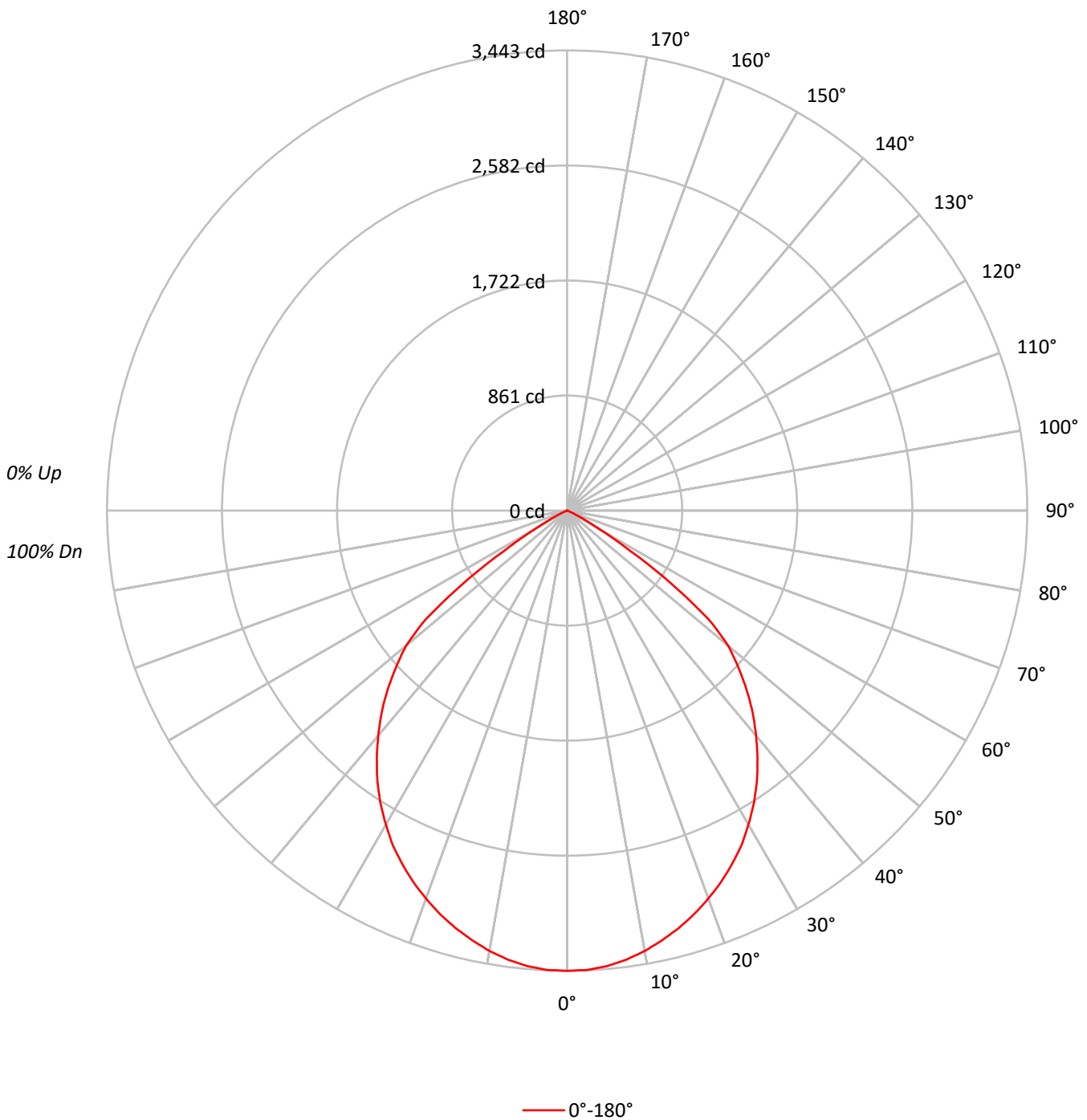
Lumens per Lamp: N/A
Luminaire Lumens: 6512.7 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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	112	109	105	103	109	106	104	101	102	100	98		98	97	95		95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75		82	78	74		79	76	73	71
4	90	80	73	68	88	79	72	67	77	71	66		75	70	66		73	68	65	63
5	84	73	65	60	82	72	65	60	70	64	59		68	63	58		66	62	58	56
6	78	66	59	53	76	66	58	53	64	57	53		62	57	52		61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	47		57	51	47		56	51	47	45
8	68	56	48	43	66	55	48	43	54	47	43		53	47	43		52	46	42	41
9	64	52	44	39	62	51	44	39	50	43	39		49	43	39		48	43	39	37
10	60	48	41	36	59	47	40	36	46	40	36		45	40	35		45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16989
5°	16941
10°	16759
15°	16509
20°	16222
25°	15891
30°	15460
35°	14903
40°	14162
45°	13260
50°	12087
55°	8081
60°	2871
65°	664
70°	107
75°	112
80°	148
85°	170

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13260 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.1	5.0
10°-20°	910.9	14.0
20°-30°	1343.3	20.6
30°-40°	1543.6	23.7
40°-50°	1461.4	22.4
50°-60°	832.0	12.8
60°-70°	88.2	1.4
70°-80°	6.3	0.1
80°-90°	2.9	0.0
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°	2578.2	39.6
0°-40°	4121.8	63.3
0°-60°	6415.2	98.5
0°-90°	6512.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6512.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3443	
5°	3420	324
15°	3232	911
25°	2919	1343
35°	2474	1544
45°	1900	1461
55°	940	832
65°	57	88
75°	6	6
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3443.4
2.5°	3439.7
5°	3420.5
7.5°	3388.7
10°	3345.2
12.5°	3292.0
15°	3232.1
17.5°	3164.2
20°	3089.6
22.5°	3008.3
25°	2919.0
27.5°	2823.0
30°	2713.6
32.5°	2598.4
35°	2474.3
37.5°	2339.9
40°	2198.8
42.5°	2056.3
45°	1900.4
47.5°	1738.7
50°	1574.7
52.5°	1329.5
55°	939.5
57.5°	560.6
60°	291.0
62.5°	145.5
65°	56.9
67.5°	11.1
70°	7.4
72.5°	6.6
75°	5.9
77.5°	5.2
80°	5.2
82.5°	3.7
85°	3.0
87.5°	1.5
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	15.74	17.10	16.10	17.41	17.73	15.74	17.10	16.10	17.41	17.73
	3H	15.61	16.81	15.99	17.14	17.50	15.61	16.81	15.99	17.14	17.50
	4H	15.54	16.65	15.94	17.00	17.38	15.54	16.65	15.94	17.00	17.38
	6H	15.47	16.48	15.88	16.85	17.25	15.47	16.48	15.88	16.85	17.25
	8H	15.43	16.39	15.86	16.78	17.18	15.43	16.39	15.86	16.78	17.18
	12H	15.39	16.30	15.82	16.68	17.11	15.39	16.30	15.82	16.68	17.11
4H	2H	15.56	16.67	15.97	17.02	17.40	15.56	16.67	15.97	17.02	17.40
	3H	15.44	16.33	15.85	16.73	17.14	15.44	16.33	15.85	16.73	17.14
	4H	15.36	16.14	15.79	16.56	17.01	15.36	16.14	15.79	16.56	17.01
	6H	15.28	15.95	15.74	16.40	16.87	15.28	15.95	15.74	16.40	16.87
	8H	15.22	15.85	15.69	16.30	16.77	15.22	15.85	15.69	16.30	16.77
	12H	15.17	15.73	15.66	16.22	16.69	15.17	15.73	15.66	16.22	16.69
8H	4H	15.22	15.85	15.69	16.30	16.77	15.22	15.85	15.69	16.30	16.77
	6H	15.11	15.63	15.61	16.13	16.61	15.11	15.63	15.61	16.13	16.61
	8H	15.04	15.52	15.57	16.03	16.53	15.04	15.52	15.57	16.03	16.53
	12H	14.99	15.42	15.51	15.92	16.49	14.99	15.42	15.51	15.92	16.49
12H	4H	15.17	15.73	15.65	16.21	16.69	15.17	15.73	15.65	16.21	16.69
	6H	15.04	15.52	15.56	16.03	16.52	15.04	15.52	15.56	16.03	16.52
	8H	14.99	15.42	15.51	15.91	16.48	14.99	15.42	15.51	15.91	16.48