

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: P867063

Luminaire Tested: PRLX-2002-L-935-133L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867063
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: Prenalux
Catalog Number: PRLX-2002-L-935-133L-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 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

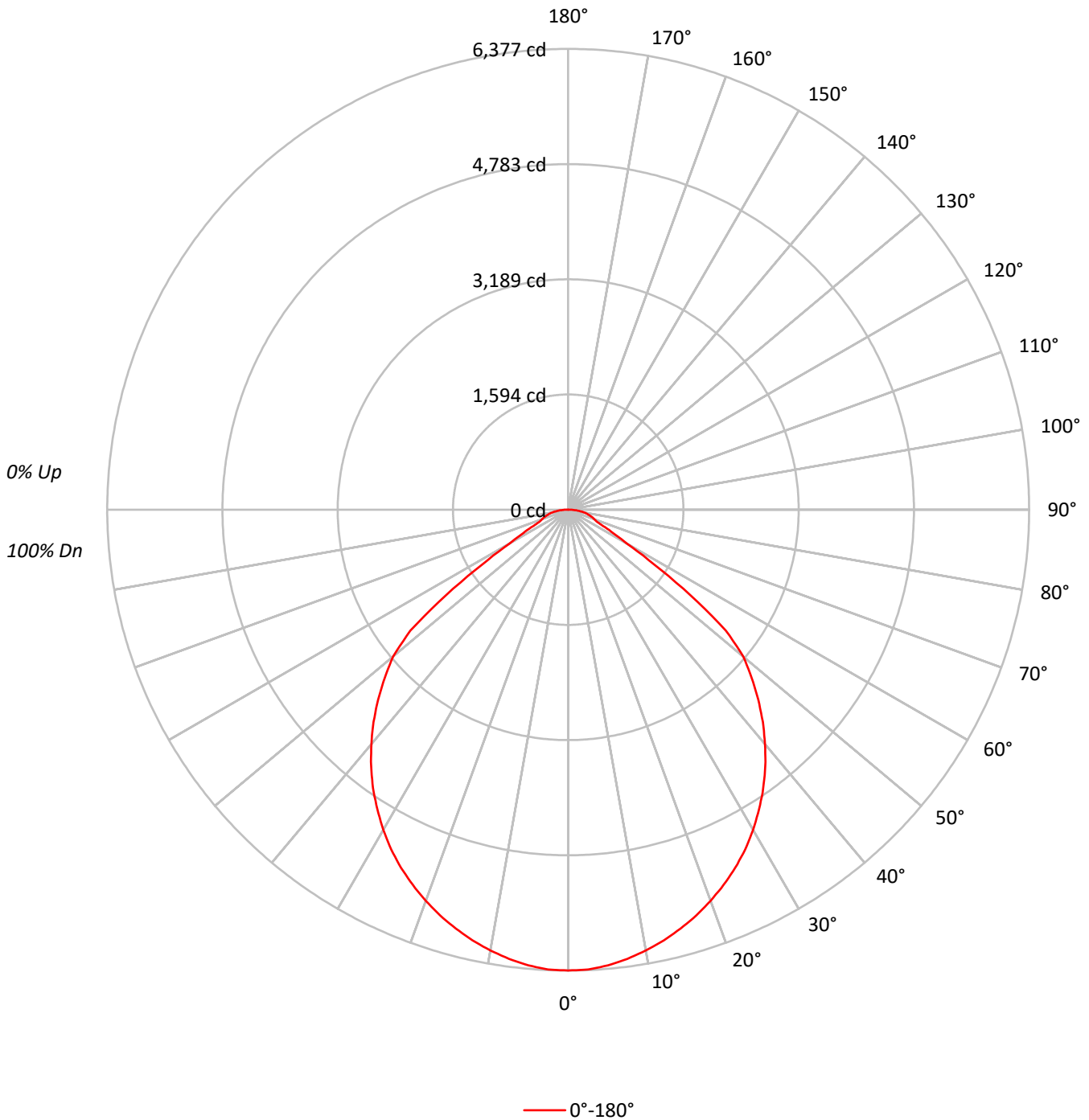
Lumens per Lamp: N/A
Luminaire Lumens: 13470.3 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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°	31463
5°	31347
10°	31023
15°	30650
20°	30235
25°	29766
30°	29135
35°	28340
40°	27282
45°	25931
50°	24263
55°	17772
60°	9288
65°	6190
70°	5535
75°	5883
80°	6433
85°	7082

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25931 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.8	4.5
10°-20°	1692.4	12.6
20°-30°	2516.8	18.7
30°-40°	2937.8	21.8
40°-50°	2862.1	21.2
50°-60°	1833.6	13.6
60°-70°	570.9	4.2
70°-80°	325.2	2.4
80°-90°	131.6	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°	4809.0	35.7
0°-40°	7746.7	57.5
0°-60°	12442.4	92.4
0°-90°	13470.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13470.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6377	
5°	6329	600
15°	6000	1692
25°	5468	2517
35°	4705	2938
45°	3716	2862
55°	2066	1834
65°	530	571
75°	309	325
85°	125	132
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6377.0
2.5°	6367.5
5°	6329.4
7.5°	6269.8
10°	6192.3
12.5°	6105.4
15°	6000.5
17.5°	5888.5
20°	5758.6
22.5°	5619.2
25°	5467.9
27.5°	5301.1
30°	5114.0
32.5°	4915.0
35°	4705.3
37.5°	4478.9
40°	4235.9
42.5°	3984.5
45°	3716.4
47.5°	3442.3
50°	3161.1
52.5°	2751.2
55°	2066.1
57.5°	1398.8
60°	941.3
62.5°	701.8
65°	530.2
67.5°	420.6
70°	383.7
72.5°	349.1
75°	308.6
77.5°	269.3
80°	226.4
82.5°	178.7
85°	125.1
87.5°	66.7
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	19.53	20.99	19.90	21.30	21.61	19.53	20.99	19.90	21.30	21.61
	3H	19.95	21.24	20.33	21.57	21.93	19.95	21.24	20.33	21.57	21.93
	4H	20.23	21.44	20.63	21.79	22.17	20.23	21.44	20.63	21.79	22.17
	6H	20.55	21.66	20.97	22.03	22.42	20.55	21.66	20.97	22.03	22.42
	8H	20.70	21.75	21.13	22.14	22.54	20.70	21.75	21.13	22.14	22.54
	12H	20.82	21.83	21.25	22.21	22.64	20.82	21.83	21.25	22.21	22.64
4H	2H	19.59	20.79	19.99	21.14	21.52	19.59	20.79	19.99	21.14	21.52
	3H	20.21	21.19	20.62	21.59	21.99	20.21	21.19	20.62	21.59	21.99
	4H	20.63	21.51	21.06	21.93	22.37	20.63	21.51	21.06	21.93	22.37
	6H	21.12	21.88	21.58	22.33	22.79	21.12	21.88	21.58	22.33	22.79
	8H	21.34	22.06	21.81	22.50	22.97	21.34	22.06	21.81	22.50	22.97
	12H	21.54	22.18	22.03	22.66	23.13	21.54	22.18	22.03	22.66	23.13
8H	4H	20.77	21.49	21.24	21.93	22.40	20.77	21.49	21.24	21.93	22.40
	6H	21.41	22.00	21.90	22.49	22.97	21.41	22.00	21.90	22.49	22.97
	8H	21.72	22.26	22.24	22.77	23.26	21.72	22.26	22.24	22.77	23.26
	12H	22.03	22.51	22.54	23.01	23.57	22.03	22.51	22.54	23.01	23.57
12H	4H	20.79	21.43	21.27	21.91	22.38	20.79	21.43	21.27	21.91	22.38
	6H	21.45	21.99	21.97	22.50	22.99	21.45	21.99	21.97	22.50	22.99
	8H	21.84	22.32	22.35	22.81	23.38	21.84	22.32	22.35	22.81	23.38