

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: P866853

Luminaire Tested: PRLX-2001-L-940-100L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-940-100L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

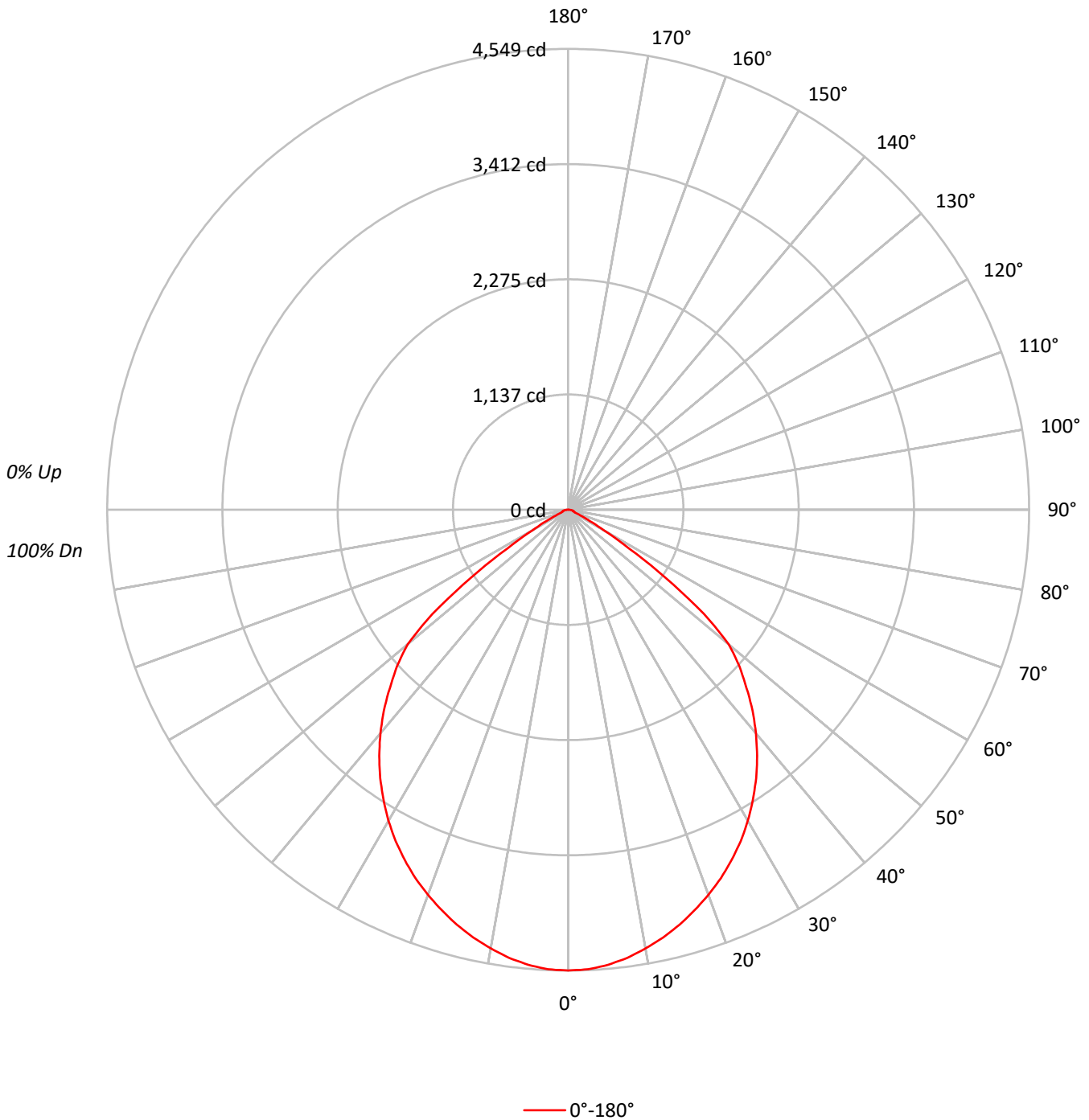
Lumens per Lamp: N/A
Luminaire Lumens: 8622.1 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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	112	108	105	102	109	106	103	101	102	100	97		98	96	94		95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85		89	86	83		87	84	81	80
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58		68	62	58		66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52		62	56	52		60	55	51	50
7	72	60	53	47	71	60	52	47	58	52	47		57	51	47		56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42		52	47	42		51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35		45	39	35		44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24868
5°	24749
10°	24411
15°	23999
20°	23540
25°	23018
30°	22383
35°	21575
40°	20566
45°	19242
50°	17590
55°	11162
60°	4427
65°	1693
70°	1025
75°	1117
80°	1256
85°	1399

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19242 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.9	5.0
10°-20°	1195.0	13.9
20°-30°	1756.5	20.4
30°-40°	2018.3	23.4
40°-50°	1917.5	22.2
50°-60°	1063.2	12.3
60°-70°	165.9	1.9
70°-80°	55.7	0.6
80°-90°	23.1	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°	3378.4	39.2
0°-40°	5396.7	62.6
0°-60°	8377.4	97.2
0°-90°	8622.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8622.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4549	
5°	4510	427
15°	4240	1195
25°	3816	1756
35°	3233	2018
45°	2489	1918
55°	1171	1063
65°	131	166
75°	53	56
85°	22	23
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4548.8
2.5°	4541.3
5°	4509.8
7.5°	4462.4
10°	4397.4
12.5°	4325.9
15°	4240.4
17.5°	4146.6
20°	4046.3
22.5°	3937.7
25°	3816.0
27.5°	3687.9
30°	3545.8
32.5°	3393.5
35°	3232.8
37.5°	3062.8
40°	2881.8
42.5°	2693.2
45°	2488.9
47.5°	2291.1
50°	2068.2
52.5°	1688.4
55°	1171.1
57.5°	712.3
60°	404.9
62.5°	240.5
65°	130.9
67.5°	71.5
70°	64.1
72.5°	58.5
75°	52.9
77.5°	47.4
80°	39.9
82.5°	31.6
85°	22.3
87.5°	11.1
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	16.79	18.17	17.16	18.48	18.80	16.79	18.17	17.16	18.48	18.80
	3H	16.73	17.94	17.11	18.27	18.63	16.73	17.94	17.11	18.27	18.63
	4H	16.71	17.83	17.11	18.18	18.56	16.71	17.83	17.11	18.18	18.56
	6H	16.69	17.72	17.11	18.09	18.49	16.69	17.72	17.11	18.09	18.49
	8H	16.68	17.66	17.11	18.05	18.45	16.68	17.66	17.11	18.05	18.45
	12H	16.67	17.60	17.10	17.99	18.42	16.67	17.60	17.10	17.99	18.42
4H	2H	16.66	17.79	17.06	18.14	18.52	16.66	17.79	17.06	18.14	18.52
	3H	16.63	17.54	17.04	17.94	18.34	16.63	17.54	17.04	17.94	18.34
	4H	16.62	17.43	17.06	17.85	18.29	16.62	17.43	17.06	17.85	18.29
	6H	16.65	17.34	17.11	17.79	18.25	16.65	17.34	17.11	17.79	18.25
	8H	16.65	17.29	17.12	17.74	18.21	16.65	17.29	17.12	17.74	18.21
	12H	16.65	17.23	17.14	17.71	18.18	16.65	17.23	17.14	17.71	18.18
8H	4H	16.53	17.18	17.00	17.63	18.10	16.53	17.18	17.00	17.63	18.10
	6H	16.57	17.11	17.07	17.60	18.08	16.57	17.11	17.07	17.60	18.08
	8H	16.59	17.08	17.11	17.59	18.08	16.59	17.08	17.11	17.59	18.08
	12H	16.63	17.07	17.14	17.56	18.13	16.63	17.07	17.14	17.56	18.13
12H	4H	16.49	17.07	16.98	17.55	18.03	16.49	17.07	16.98	17.55	18.03
	6H	16.53	17.01	17.05	17.53	18.02	16.53	17.01	17.05	17.53	18.02
	8H	16.58	17.02	17.09	17.51	18.08	16.58	17.02	17.09	17.51	18.08