

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: P866849

Luminaire Tested: PRLX-2001-L-935-83L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-65)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-83L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

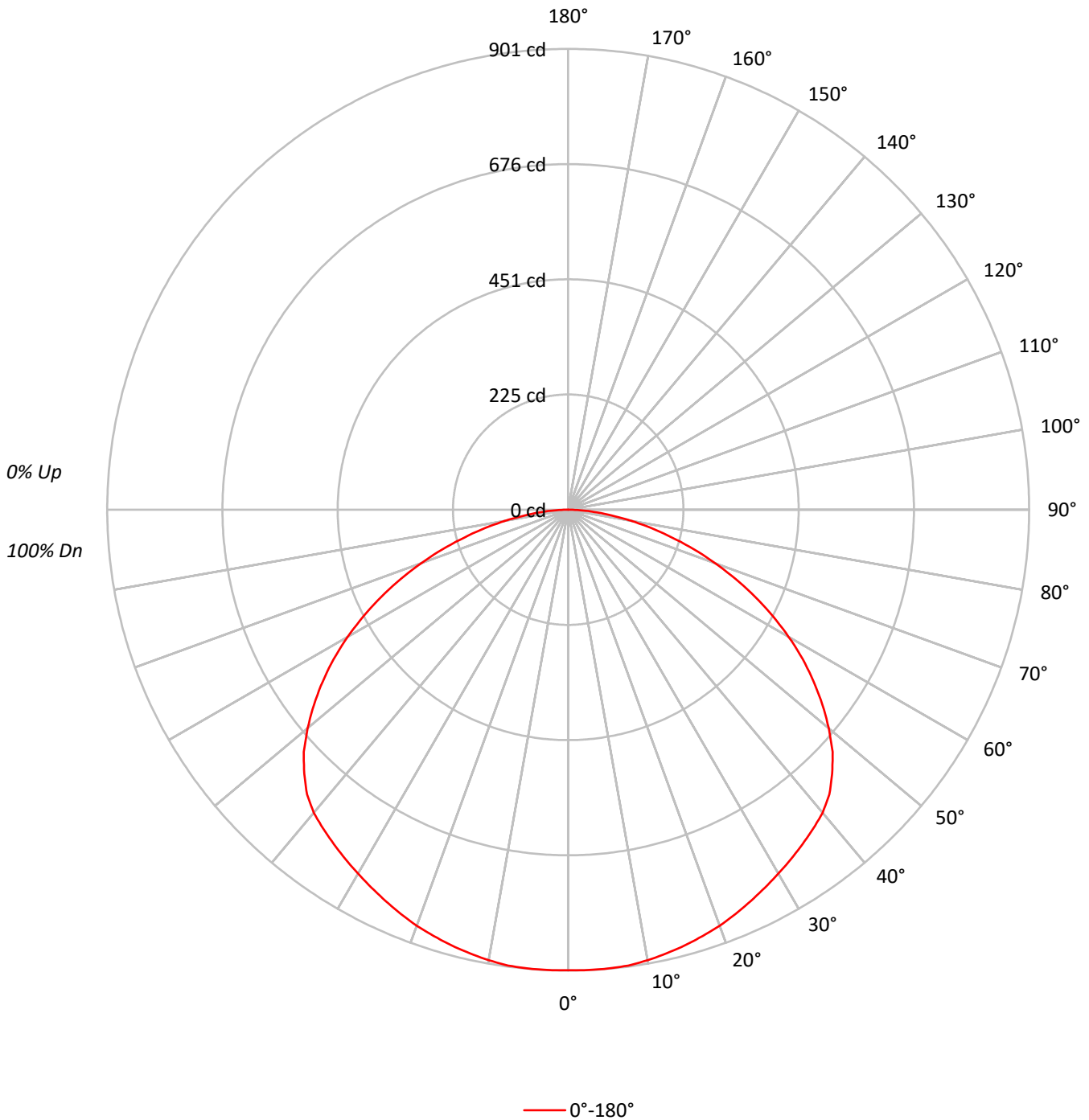
Lumens per Lamp: N/A
Luminaire Lumens: 2992.2 lumens
Efficiency: N/A
Efficacy: 46.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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: 0.333 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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52		63	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		49	43	38	36
7	63	50	40	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	30	28
9	55	41	33	27	53	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4922
5°	4941
10°	4966
15°	4991
20°	5036
25°	5092
30°	5185
35°	5328
40°	5519
45°	5642
50°	5653
55°	5582
60°	5443
65°	5217
70°	4875
75°	4431
80°	3929
85°	3199

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 5672 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	2.9
10°-20°	249.3	8.3
20°-30°	390.1	13.0
30°-40°	500.8	16.7
40°-50°	561.3	18.8
50°-60°	522.7	17.5
60°-70°	398.4	13.3
70°-80°	223.8	7.5
80°-90°	60.0	2.0
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°	725.2	24.2
0°-40°	1226.0	41.0
0°-60°	2310.0	77.2
0°-90°	2992.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2992.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	900	
5°	900	86
15°	882	249
25°	844	390
35°	798	501
45°	730	561
55°	586	523
65°	403	398
75°	210	224
85°	51	60
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	900.4
2.5°	901.1
5°	900.4
7.5°	898.9
10°	894.5
12.5°	888.5
15°	881.9
17.5°	873.8
20°	865.6
22.5°	855.3
25°	844.2
27.5°	833.1
30°	821.3
32.5°	810.3
35°	798.4
37.5°	786.6
40°	773.3
42.5°	755.6
45°	729.7
47.5°	700.9
50°	664.7
52.5°	626.3
55°	585.7
57.5°	543.6
60°	497.8
62.5°	451.3
65°	403.3
67.5°	354.5
70°	305.0
72.5°	257.8
75°	209.8
77.5°	166.2
80°	124.8
82.5°	84.9
85°	51.0
87.5°	22.2
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	18.38	20.07	18.74	20.38	20.69	18.38	20.07	18.74	20.38	20.69
	3H	20.16	21.69	20.54	22.02	22.38	20.16	21.69	20.54	22.02	22.38
	4H	20.81	22.25	21.21	22.60	22.97	20.81	22.25	21.21	22.60	22.97
	6H	21.28	22.61	21.69	22.98	23.37	21.28	22.61	21.69	22.98	23.37
	8H	21.42	22.70	21.84	23.09	23.48	21.42	22.70	21.84	23.09	23.48
	12H	21.51	22.74	21.94	23.12	23.55	21.51	22.74	21.94	23.12	23.55
4H	2H	19.02	20.46	19.42	20.81	21.18	19.02	20.46	19.42	20.81	21.18
	3H	21.02	22.23	21.43	22.63	23.03	21.02	22.23	21.43	22.63	23.03
	4H	21.79	22.88	22.22	23.30	23.73	21.79	22.88	22.22	23.30	23.73
	6H	22.38	23.34	22.83	23.78	24.23	22.38	23.34	22.83	23.78	24.23
	8H	22.57	23.47	23.03	23.91	24.37	22.57	23.47	23.03	23.91	24.37
	12H	22.70	23.51	23.18	23.98	24.45	22.70	23.51	23.18	23.98	24.45
8H	4H	22.09	22.99	22.55	23.43	23.90	22.09	22.99	22.55	23.43	23.90
	6H	22.80	23.55	23.29	24.04	24.51	22.80	23.55	23.29	24.04	24.51
	8H	23.06	23.73	23.56	24.23	24.72	23.06	23.73	23.56	24.23	24.72
	12H	23.26	23.85	23.76	24.34	24.90	23.26	23.85	23.76	24.34	24.90
12H	4H	22.13	22.94	22.61	23.41	23.88	22.13	22.94	22.61	23.41	23.88
	6H	22.85	23.53	23.36	24.03	24.52	22.85	23.53	23.36	24.03	24.52
	8H	23.16	23.76	23.67	24.25	24.81	23.16	23.76	23.67	24.25	24.81