

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: P866937

Luminaire Tested: PRLX-2002-L-927-133L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-69)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-927-133L-G-X-X-BRSS-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

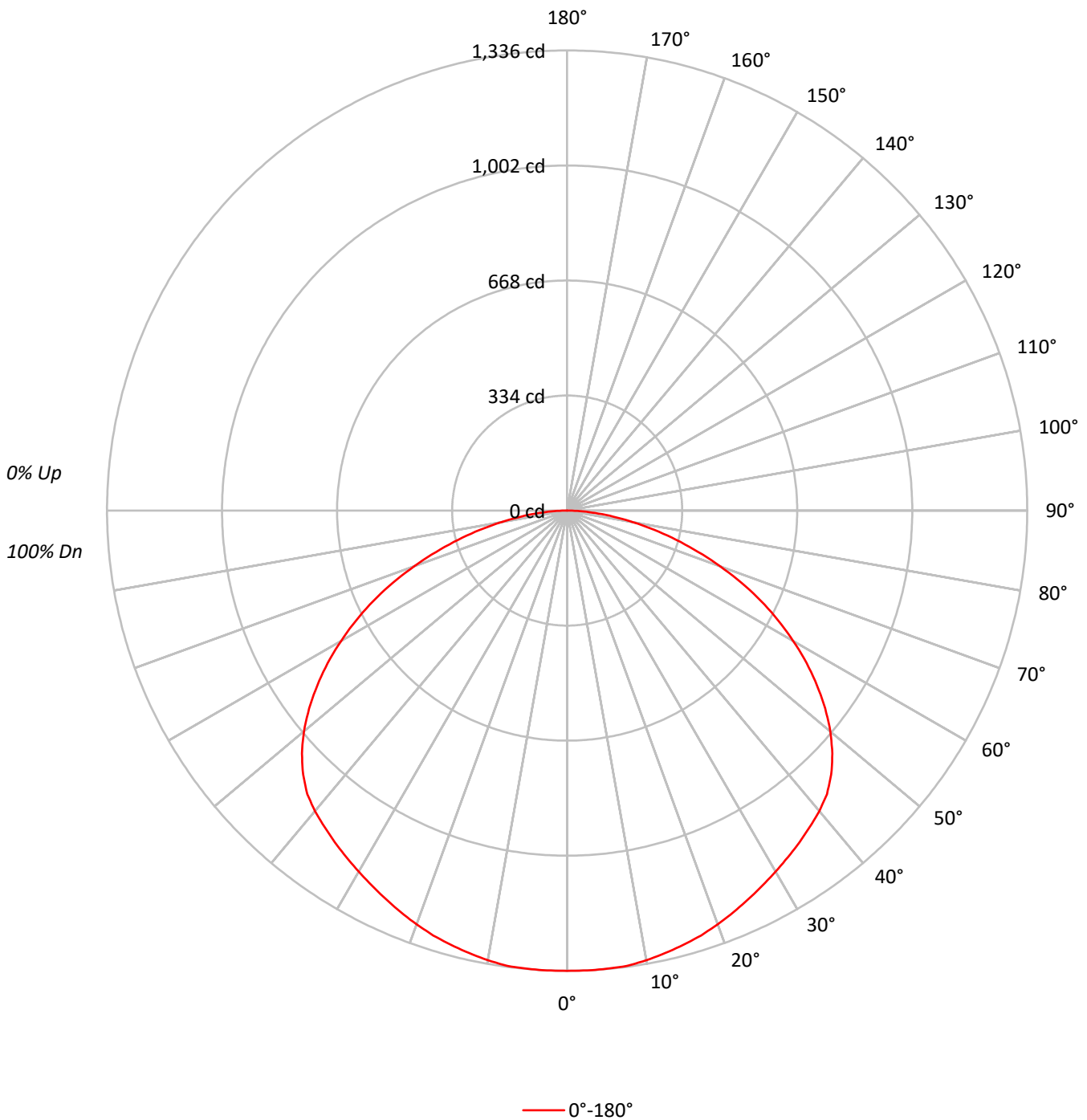
Lumens per Lamp: N/A
Luminaire Lumens: 4488.9 lumens
Efficiency: N/A
Efficacy: 40.2 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: 0.5 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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6594
5°	6614
10°	6642
15°	6667
20°	6711
25°	6777
30°	6895
35°	7083
40°	7337
45°	7565
50°	7660
55°	7620
60°	7488
65°	7247
70°	6810
75°	6245
80°	5575
85°	4574

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 7660 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	2.8
10°-20°	369.0	8.2
20°-30°	575.2	12.8
30°-40°	737.5	16.4
40°-50°	833.7	18.6
50°-60°	790.3	17.6
60°-70°	612.3	13.6
70°-80°	348.1	7.8
80°-90°	95.6	2.1
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°	1071.4	23.9
0°-40°	1808.9	40.3
0°-60°	3432.9	76.5
0°-90°	4488.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4488.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1336	
5°	1335	127
15°	1305	369
25°	1245	575
35°	1176	737
45°	1084	834
55°	886	790
65°	621	612
75°	328	348
85°	81	96
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1336.4
2.5°	1336.4
5°	1335.4
7.5°	1333.2
10°	1325.7
12.5°	1316.0
15°	1305.2
17.5°	1293.3
20°	1278.2
22.5°	1262.1
25°	1244.8
27.5°	1227.6
30°	1210.3
32.5°	1193.1
35°	1175.9
37.5°	1157.5
40°	1139.2
42.5°	1116.6
45°	1084.2
47.5°	1044.4
50°	998.0
52.5°	944.1
55°	885.9
57.5°	824.5
60°	758.8
62.5°	690.9
65°	620.8
67.5°	547.5
70°	472.1
72.5°	398.8
75°	327.6
77.5°	259.7
80°	196.2
82.5°	135.8
85°	80.8
87.5°	36.6
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	19.50	21.19	19.86	21.51	21.82	19.50	21.19	19.86	21.51	21.82
	3H	21.34	22.88	21.71	23.20	23.56	21.34	22.88	21.71	23.20	23.56
	4H	22.00	23.46	22.40	23.80	24.18	22.00	23.46	22.40	23.80	24.18
	6H	22.49	23.84	22.90	24.20	24.59	22.49	23.84	22.90	24.20	24.59
	8H	22.65	23.94	23.07	24.32	24.72	22.65	23.94	23.07	24.32	24.72
	12H	22.75	23.98	23.18	24.36	24.79	22.75	23.98	23.18	24.36	24.79
4H	2H	20.16	21.61	20.56	21.96	22.33	20.16	21.61	20.56	21.96	22.33
	3H	22.21	23.43	22.62	23.83	24.23	22.21	23.43	22.62	23.83	24.23
	4H	23.00	24.11	23.43	24.52	24.96	23.00	24.11	23.43	24.52	24.96
	6H	23.62	24.59	24.07	25.03	25.48	23.62	24.59	24.07	25.03	25.48
	8H	23.82	24.73	24.28	25.17	25.63	23.82	24.73	24.28	25.17	25.63
	12H	23.96	24.78	24.44	25.25	25.72	23.96	24.78	24.44	25.25	25.72
8H	4H	23.32	24.23	23.78	24.67	25.13	23.32	24.23	23.78	24.67	25.13
	6H	24.05	24.81	24.55	25.30	25.77	24.05	24.81	24.55	25.30	25.77
	8H	24.33	25.01	24.83	25.51	25.99	24.33	25.01	24.83	25.51	25.99
	12H	24.54	25.14	25.04	25.63	26.19	24.54	25.14	25.04	25.63	26.19
12H	4H	23.36	24.18	23.84	24.65	25.12	23.36	24.18	23.84	24.65	25.12
	6H	24.11	24.79	24.62	25.30	25.78	24.11	24.79	24.62	25.30	25.78
	8H	24.44	25.04	24.95	25.53	26.09	24.44	25.04	24.95	25.53	26.09