

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: P867003

Luminaire Tested: PRLX-2002-L-930-133L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-68)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-930-133L-G-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

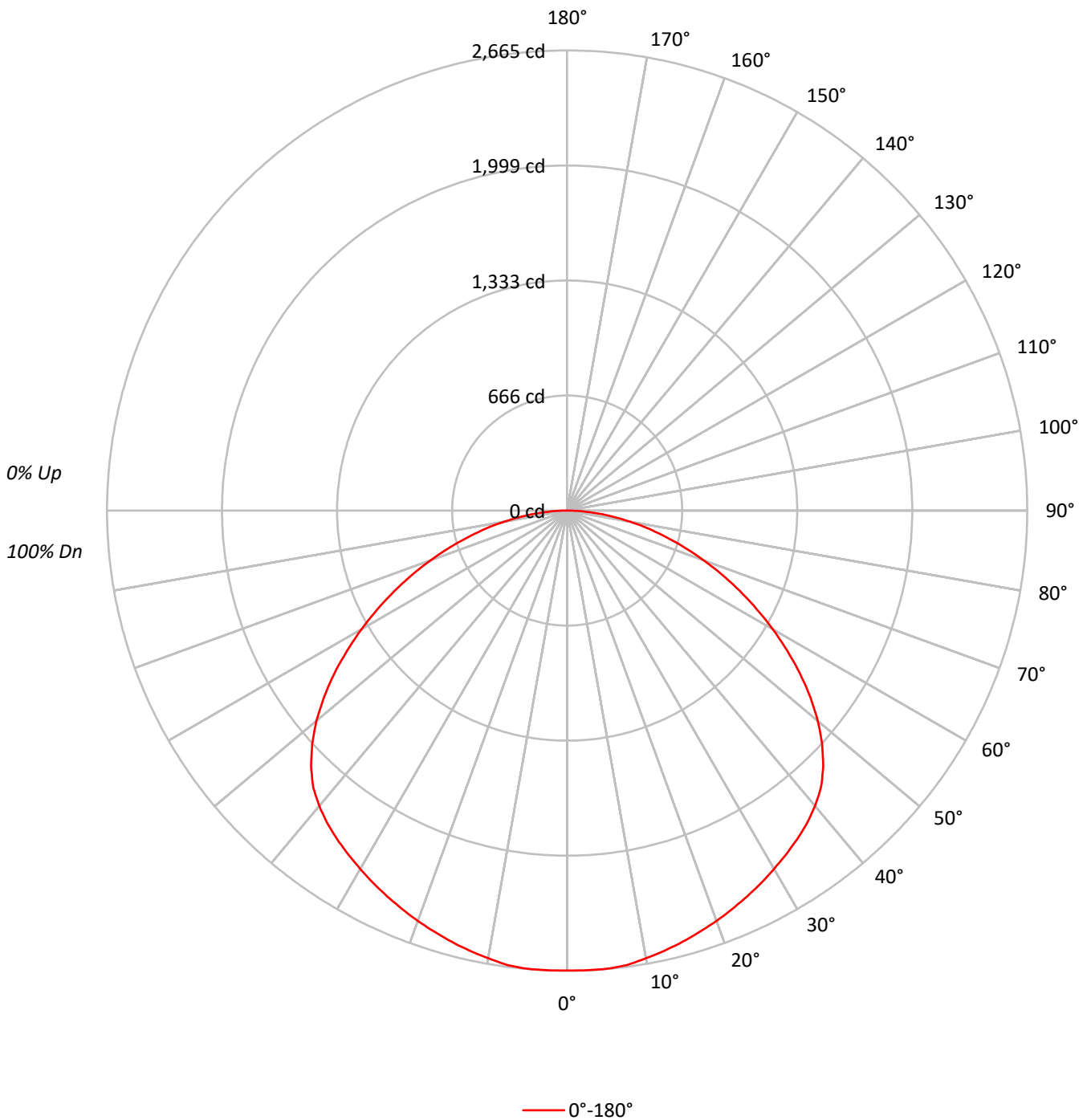
Lumens per Lamp: N/A
Luminaire Lumens: 8571.9 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P867003

CATALOG NUMBER: PRLX-2002-L-930-133L-G-X-X-WHHR-X

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	94	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	24		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13143
5°	13193
10°	13190
15°	13206
20°	13278
25°	13422
30°	13652
35°	13989
40°	14386
45°	14637
50°	14551
55°	14166
60°	13576
65°	12884
70°	12110
75°	11299
80°	10484
85°	9335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14637 cd/sqm

TEST NUMBER: P867003

CATALOG NUMBER: PRLX-2002-L-930-133L-G-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	3.0
10°-20°	730.9	8.5
20°-30°	1138.9	13.3
30°-40°	1455.5	17.0
40°-50°	1611.4	18.8
50°-60°	1468.7	17.1
60°-70°	1094.2	12.8
70°-80°	631.6	7.4
80°-90°	187.3	2.2
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°	2123.2	24.8
0°-40°	3578.7	41.7
0°-60°	6658.8	77.7
0°-90°	8571.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8571.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2664	
5°	2664	253
15°	2586	731
25°	2466	1139
35°	2322	1456
45°	2098	1611
55°	1647	1469
65°	1104	1094
75°	593	632
85°	165	187
90°	0	

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CATALOG NUMBER: PRLX-2002-L-930-133L-G-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	2663.9
2.5°	2665.0
5°	2663.9
7.5°	2654.6
10°	2632.7
12.5°	2610.8
15°	2585.5
17.5°	2557.8
20°	2529.0
22.5°	2497.8
25°	2465.5
27.5°	2432.1
30°	2396.3
32.5°	2360.6
35°	2322.5
37.5°	2282.2
40°	2233.7
42.5°	2176.1
45°	2097.7
47.5°	2003.1
50°	1895.8
52.5°	1774.8
55°	1646.8
57.5°	1510.7
60°	1375.8
62.5°	1239.7
65°	1103.6
67.5°	972.1
70°	839.5
72.5°	716.1
75°	592.7
77.5°	482.0
80°	369.0
82.5°	262.9
85°	164.9
87.5°	76.1
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	21.48	23.15	21.84	23.47	23.78	21.48	23.15	21.84	23.47	23.78
	3H	23.23	24.75	23.60	25.07	25.43	23.23	24.75	23.60	25.07	25.43
	4H	23.89	25.32	24.29	25.67	26.05	23.89	25.32	24.29	25.67	26.05
	6H	24.41	25.74	24.82	26.10	26.49	24.41	25.74	24.82	26.10	26.49
	8H	24.58	25.86	25.01	26.24	26.64	24.58	25.86	25.01	26.24	26.64
	12H	24.71	25.93	25.14	26.31	26.74	24.71	25.93	25.14	26.31	26.74
4H	2H	22.10	23.53	22.49	23.88	24.25	22.10	23.53	22.49	23.88	24.25
	3H	24.07	25.28	24.48	25.67	26.07	24.07	25.28	24.48	25.67	26.07
	4H	24.87	25.96	25.30	26.37	26.81	24.87	25.96	25.30	26.37	26.81
	6H	25.52	26.48	25.98	26.92	27.37	25.52	26.48	25.98	26.92	27.37
	8H	25.75	26.65	26.21	27.09	27.55	25.75	26.65	26.21	27.09	27.55
	12H	25.92	26.73	26.40	27.20	27.67	25.92	26.73	26.40	27.20	27.67
8H	4H	25.19	26.09	25.65	26.53	26.99	25.19	26.09	25.65	26.53	26.99
	6H	25.98	26.72	26.47	27.21	27.68	25.98	26.72	26.47	27.21	27.68
	8H	26.28	26.95	26.79	27.46	27.94	26.28	26.95	26.79	27.46	27.94
	12H	26.53	27.13	27.04	27.62	28.18	26.53	27.13	27.04	27.62	28.18
12H	4H	25.23	26.04	25.71	26.51	26.98	25.23	26.04	25.71	26.51	26.98
	6H	26.04	26.71	26.55	27.22	27.70	26.04	26.71	26.55	27.22	27.70
	8H	26.41	27.00	26.91	27.49	28.05	26.41	27.00	26.91	27.49	28.05