

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: P866683

Luminaire Tested: PRLX-2001-L-927-133L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-62)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-927-133L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

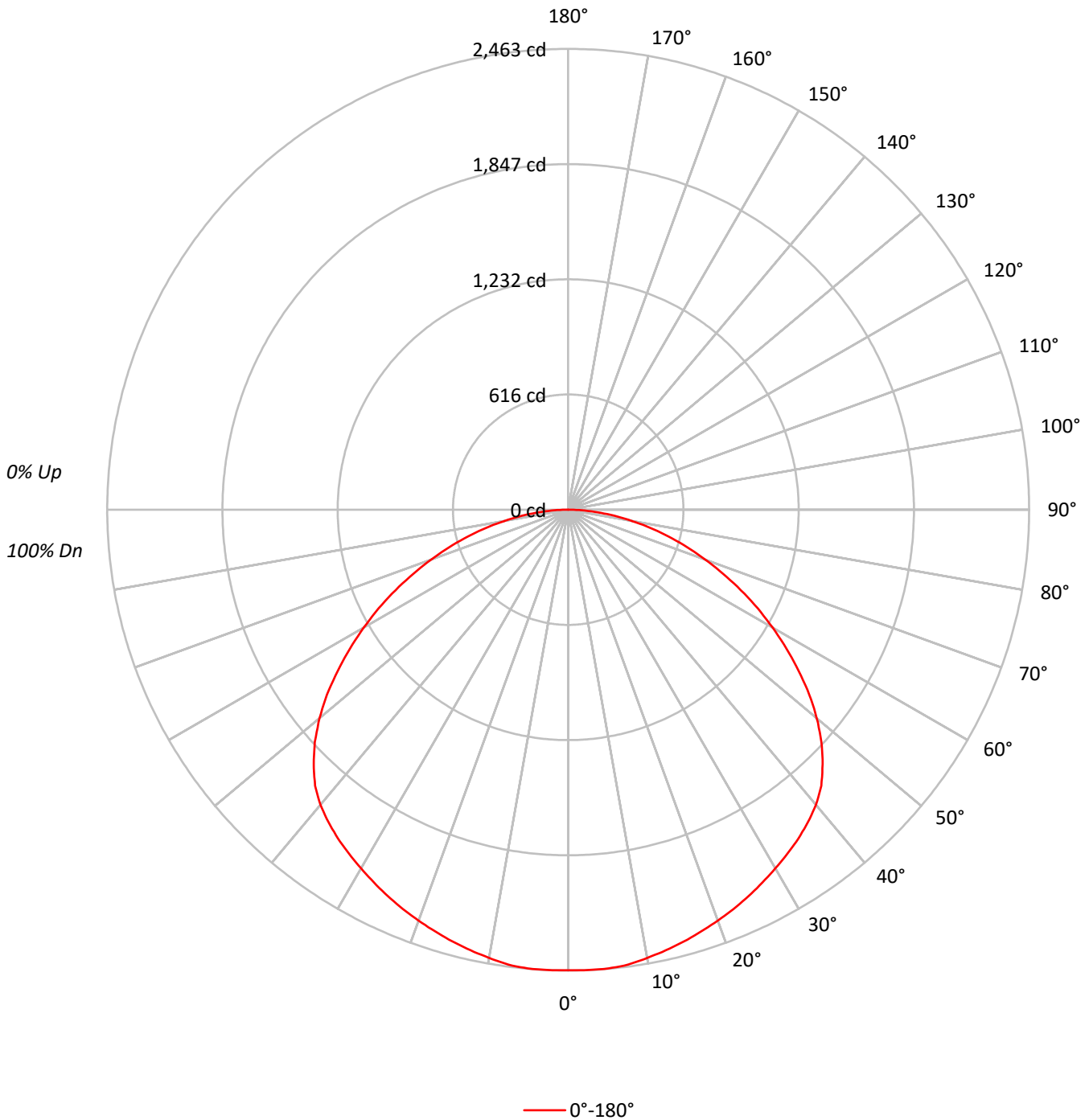
Lumens per Lamp: N/A
Luminaire Lumens: 7902.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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: P866683

CATALOG NUMBER: PRLX-2001-L-927-133L-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	93	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	28	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	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13457
5°	13509
10°	13503
15°	13523
20°	13600
25°	13750
30°	13974
35°	14314
40°	14698
45°	14865
50°	14748
55°	14330
60°	13787
65°	13161
70°	12455
75°	11702
80°	10893
85°	9735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14865 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.1	3.0
10°-20°	675.4	8.5
20°-30°	1052.7	13.3
30°-40°	1343.5	17.0
40°-50°	1478.9	18.7
50°-60°	1343.7	17.0
60°-70°	1008.0	12.8
70°-80°	589.2	7.5
80°-90°	176.4	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°	1962.2	24.8
0°-40°	3305.7	41.8
0°-60°	6128.3	77.6
0°-90°	7902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7902.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2462	
5°	2462	234
15°	2389	675
25°	2280	1053
35°	2145	1344
45°	1923	1479
55°	1504	1344
65°	1017	1008
75°	554	589
85°	155	176
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2461.6
2.5°	2462.7
5°	2461.6
7.5°	2453.0
10°	2432.5
12.5°	2412.1
15°	2389.4
17.5°	2363.6
20°	2337.7
22.5°	2309.7
25°	2279.5
27.5°	2247.2
30°	2213.7
32.5°	2180.3
35°	2144.8
37.5°	2104.9
40°	2059.6
42.5°	2001.4
45°	1922.7
47.5°	1835.4
50°	1734.1
52.5°	1624.2
55°	1503.5
57.5°	1383.9
60°	1261.0
62.5°	1141.4
65°	1017.4
67.5°	895.6
70°	779.2
72.5°	667.1
75°	554.0
77.5°	450.5
80°	346.0
82.5°	247.9
85°	155.2
87.5°	72.2
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	21.51	23.19	21.87	23.50	23.81	21.51	23.19	21.87	23.50	23.81
	3H	23.28	24.80	23.66	25.13	25.49	23.28	24.80	23.66	25.13	25.49
	4H	23.97	25.40	24.37	25.75	26.12	23.97	25.40	24.37	25.75	26.12
	6H	24.50	25.83	24.91	26.19	26.58	24.50	25.83	24.91	26.19	26.58
	8H	24.68	25.95	25.11	26.34	26.74	24.68	25.95	25.11	26.34	26.74
	12H	24.81	26.03	25.24	26.41	26.84	24.81	26.03	25.24	26.41	26.84
4H	2H	22.14	23.57	22.53	23.92	24.29	22.14	23.57	22.53	23.92	24.29
	3H	24.14	25.34	24.55	25.74	26.14	24.14	25.34	24.55	25.74	26.14
	4H	24.96	26.05	25.39	26.46	26.90	24.96	26.05	25.39	26.46	26.90
	6H	25.63	26.59	26.08	27.03	27.48	25.63	26.59	26.08	27.03	27.48
	8H	25.86	26.76	26.32	27.20	27.67	25.86	26.76	26.32	27.20	27.67
	12H	26.04	26.85	26.52	27.32	27.79	26.04	26.85	26.52	27.32	27.79
8H	4H	25.29	26.18	25.75	26.63	27.09	25.29	26.18	25.75	26.63	27.09
	6H	26.09	26.84	26.58	27.32	27.80	26.09	26.84	26.58	27.32	27.80
	8H	26.41	27.08	26.91	27.58	28.07	26.41	27.08	26.91	27.58	28.07
	12H	26.67	27.26	27.17	27.75	28.31	26.67	27.26	27.17	27.75	28.31
12H	4H	25.33	26.14	25.81	26.61	27.08	25.33	26.14	25.81	26.61	27.08
	6H	26.16	26.83	26.67	27.34	27.82	26.16	26.83	26.67	27.34	27.82
	8H	26.54	27.13	27.04	27.62	28.18	26.54	27.13	27.04	27.62	28.18