

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: P866858

Luminaire Tested: PRLX-2001-L-940-100L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-940-100L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

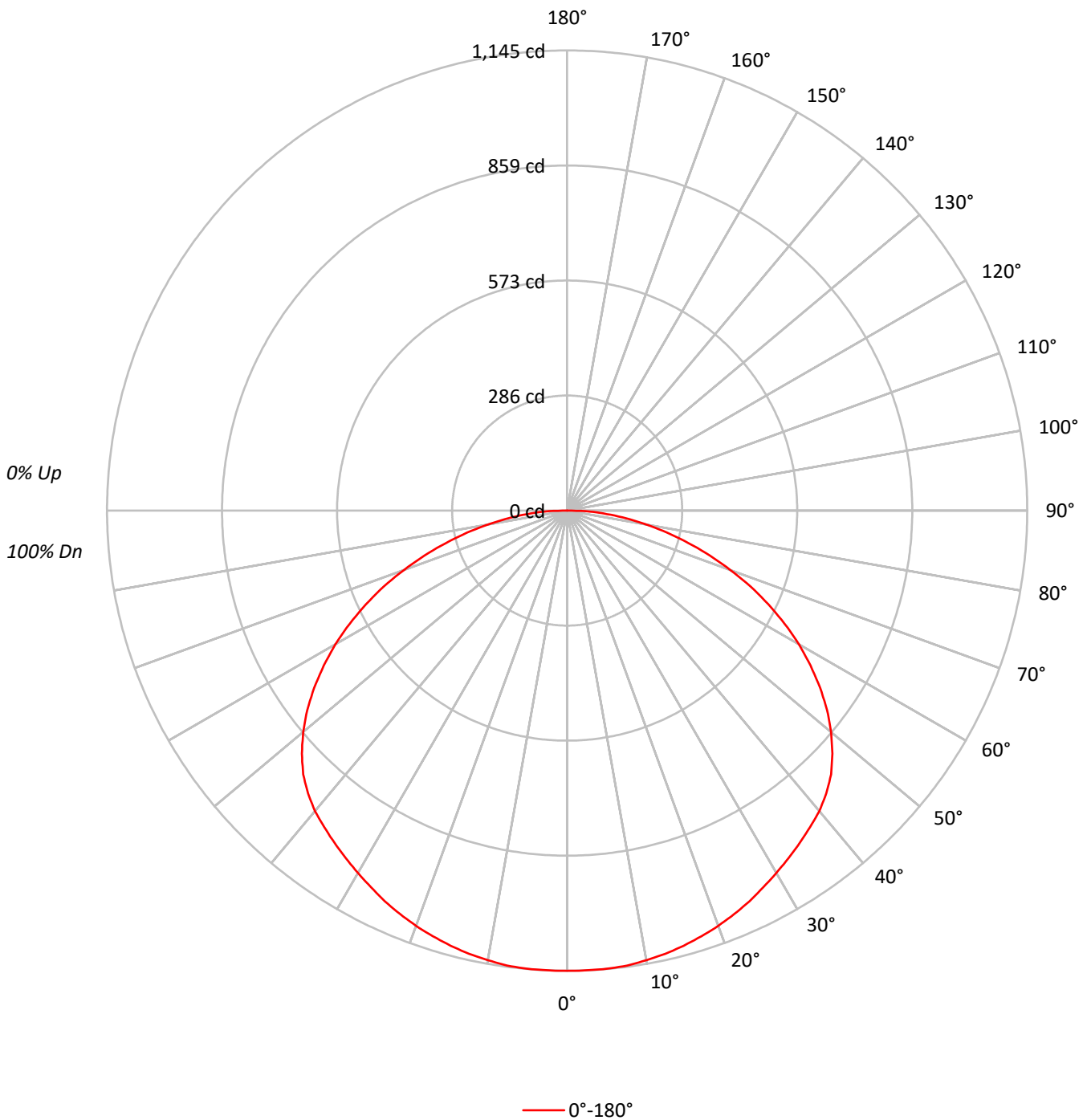
Lumens per Lamp: N/A
Luminaire Lumens: 3940.8 lumens
Efficiency: N/A
Efficacy: 49.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866858

CATALOG NUMBER: PRLX-2001-L-940-100L-G-X-X-GREY-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	98	94	105	100	96	92	96	93	89		92	89	87		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33		45	38	32		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6260
5°	6279
10°	6305
15°	6344
20°	6397
25°	6470
30°	6572
35°	6737
40°	6966
45°	7180
50°	7290
55°	7320
60°	7281
65°	7148
70°	6902
75°	6611
80°	6287
85°	6235

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 7323 cd/sqm

TEST NUMBER: P866858

CATALOG NUMBER: PRLX-2001-L-940-100L-G-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	2.8
10°-20°	316.9	8.0
20°-30°	495.2	12.6
30°-40°	633.1	16.1
40°-50°	714.2	18.1
50°-60°	685.3	17.4
60°-70°	545.9	13.9
70°-80°	331.4	8.4
80°-90°	109.9	2.8
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°	921.1	23.4
0°-40°	1554.1	39.4
0°-60°	2953.7	75.0
0°-90°	3940.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3940.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1145	
5°	1144	109
15°	1121	317
25°	1073	495
35°	1010	633
45°	929	714
55°	768	685
65°	553	546
75°	313	331
85°	99	110
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1145.1
2.5°	1145.1
5°	1144.2
7.5°	1142.3
10°	1135.8
12.5°	1129.3
15°	1120.9
17.5°	1110.7
20°	1099.6
22.5°	1086.6
25°	1072.6
27.5°	1056.9
30°	1041.1
32.5°	1025.3
35°	1009.5
37.5°	992.8
40°	976.1
42.5°	954.7
45°	928.7
47.5°	895.3
50°	857.2
52.5°	815.4
55°	768.0
57.5°	717.9
60°	665.9
62.5°	610.2
65°	552.6
67.5°	494.1
70°	431.8
72.5°	372.4
75°	313.0
77.5°	255.4
80°	199.7
82.5°	147.7
85°	99.4
87.5°	56.7
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	19.33	21.04	19.69	21.35	21.67	19.33	21.04	19.69	21.35	21.67
	3H	21.29	22.85	21.67	23.17	23.53	21.29	22.85	21.67	23.17	23.53
	4H	22.05	23.52	22.45	23.87	24.24	22.05	23.52	22.45	23.87	24.24
	6H	22.65	24.02	23.06	24.38	24.77	22.65	24.02	23.06	24.38	24.77
	8H	22.87	24.17	23.29	24.56	24.96	22.87	24.17	23.29	24.56	24.96
	12H	23.04	24.29	23.47	24.67	25.10	23.04	24.29	23.47	24.67	25.10
4H	2H	20.02	21.49	20.42	21.84	22.21	20.02	21.49	20.42	21.84	22.21
	3H	22.20	23.44	22.61	23.84	24.24	22.20	23.44	22.61	23.84	24.24
	4H	23.10	24.23	23.53	24.64	25.07	23.10	24.23	23.53	24.64	25.07
	6H	23.84	24.83	24.29	25.27	25.72	23.84	24.83	24.29	25.27	25.72
	8H	24.12	25.04	24.57	25.49	25.95	24.12	25.04	24.57	25.49	25.95
	12H	24.35	25.19	24.83	25.66	26.13	24.35	25.19	24.83	25.66	26.13
8H	4H	23.46	24.39	23.92	24.83	25.30	23.46	24.39	23.92	24.83	25.30
	6H	24.35	25.12	24.84	25.61	26.08	24.35	25.12	24.84	25.61	26.08
	8H	24.72	25.41	25.22	25.92	26.40	24.72	25.41	25.22	25.92	26.40
	12H	25.05	25.66	25.55	26.15	26.71	25.05	25.66	25.55	26.15	26.71
12H	4H	23.52	24.36	24.00	24.83	25.30	23.52	24.36	24.00	24.83	25.30
	6H	24.43	25.13	24.93	25.63	26.12	24.43	25.13	24.93	25.63	26.12
	8H	24.87	25.49	25.37	25.98	26.53	24.87	25.49	25.37	25.98	26.53