

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: P865998

Luminaire Tested: PRLX-2001-M-930-55L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-55L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

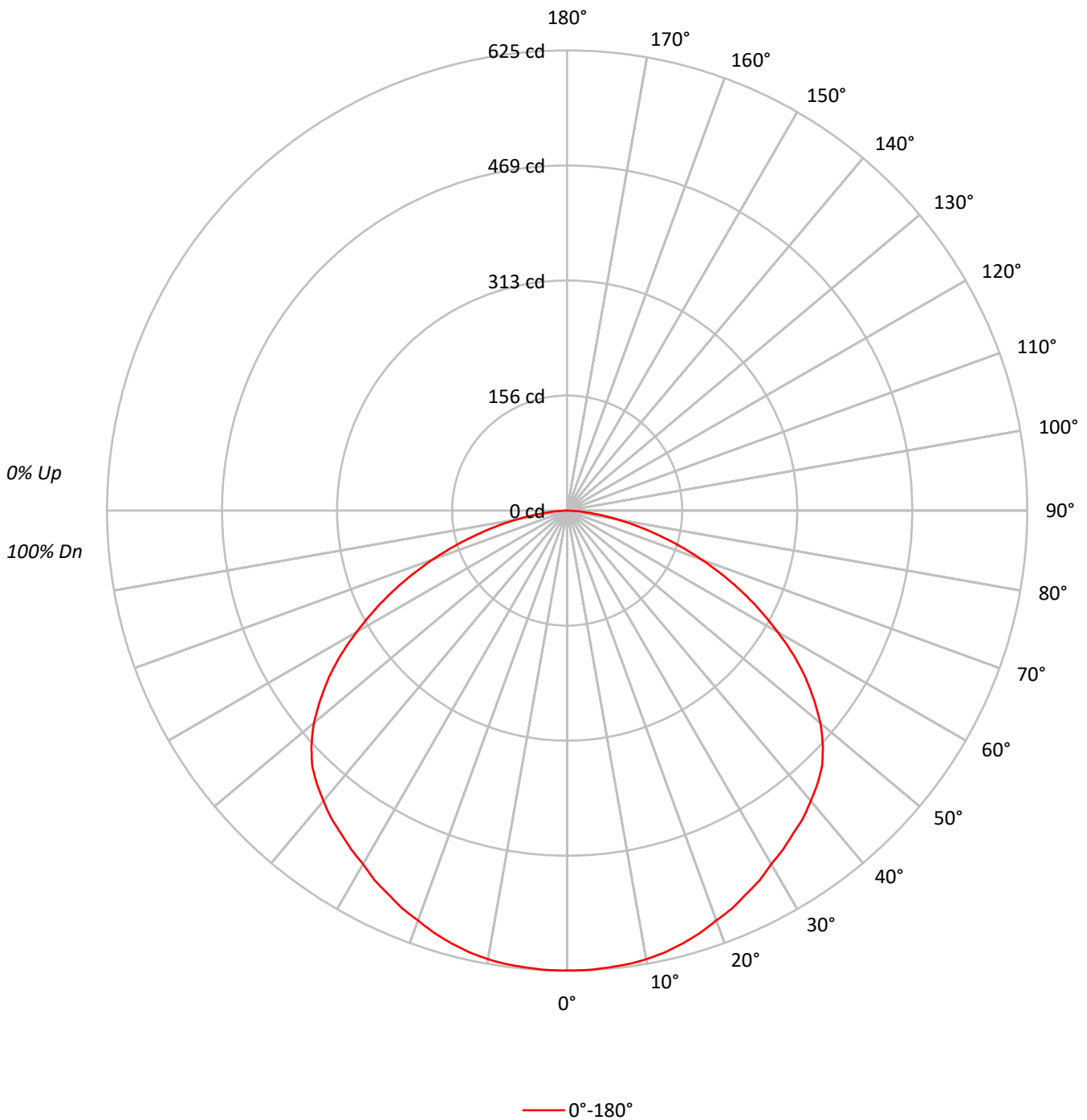
Lumens per Lamp: N/A
Luminaire Lumens: 1986.5 lumens
Efficiency: N/A
Efficacy: 41.1 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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: P865998

CATALOG NUMBER: PRLX-2001-M-930-55L-G-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P865998

CATALOG NUMBER: PRLX-2001-M-930-55L-G-U-S-X-X-GREY-X

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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69	64	60	58
4	82	69	61	54	79	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5300
5°	5309
10°	5332
15°	5346
20°	5350
25°	5383
30°	5432
35°	5546
40°	5704
45°	5881
50°	5929
55°	5844
60°	5611
65°	5287
70°	4828
75°	4174
80°	3362
85°	2278

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 5929 cd/sqm

TEST NUMBER: P865998

CATALOG NUMBER: PRLX-2001-M-930-55L-G-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	3.0
10°-20°	171.8	8.6
20°-30°	265.6	13.4
30°-40°	336.0	16.9
40°-50°	376.1	18.9
50°-60°	351.5	17.7
60°-70°	260.0	13.1
70°-80°	136.5	6.9
80°-90°	29.6	1.5
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°	496.7	25.0
0°-40°	832.7	41.9
0°-60°	1560.4	78.6
0°-90°	1986.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1986.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	625	
5°	623	59
15°	608	172
25°	575	266
35°	535	336
45°	490	376
55°	395	352
65°	263	260
75°	127	136
85°	23	30
90°	0	

TEST NUMBER: P865998

CATALOG NUMBER: PRLX-2001-M-930-55L-G-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	624.6
2.5°	624.6
5°	623.2
7.5°	621.7
10°	618.8
12.5°	614.4
15°	608.5
17.5°	601.2
20°	592.4
22.5°	585.1
25°	574.9
27.5°	566.1
30°	554.4
32.5°	545.6
35°	535.4
37.5°	526.6
40°	514.9
42.5°	503.2
45°	490.0
47.5°	471.0
50°	449.1
52.5°	422.8
55°	395.0
57.5°	364.2
60°	330.6
62.5°	297.0
65°	263.3
67.5°	228.2
70°	194.6
72.5°	160.9
75°	127.3
77.5°	98.0
80°	68.8
82.5°	43.9
85°	23.4
87.5°	7.3
90°	0.0



TEST NUMBER: P865998
 CATALOG NUMBER: PRLX-2001-M-930-55L-G-U-S-X-X-GREY-X

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	18.56	20.23	18.93	20.55	20.86	18.56	20.23	18.93	20.55	20.86
	3H	20.22	21.74	20.60	22.06	22.42	20.22	21.74	20.60	22.06	22.42
	4H	20.78	22.21	21.18	22.56	22.93	20.78	22.21	21.18	22.56	22.93
	6H	21.15	22.47	21.56	22.83	23.22	21.15	22.47	21.56	22.83	23.22
	8H	21.24	22.50	21.66	22.89	23.28	21.24	22.50	21.66	22.89	23.28
	12H	21.28	22.49	21.71	22.87	23.30	21.28	22.49	21.71	22.87	23.30
4H	2H	19.17	20.59	19.57	20.94	21.32	19.17	20.59	19.57	20.94	21.32
	3H	21.04	22.23	21.45	22.63	23.03	21.04	22.23	21.45	22.63	23.03
	4H	21.71	22.79	22.14	23.20	23.64	21.71	22.79	22.14	23.20	23.64
	6H	22.18	23.12	22.63	23.56	24.02	22.18	23.12	22.63	23.56	24.02
	8H	22.30	23.18	22.76	23.62	24.09	22.30	23.18	22.76	23.62	24.09
	12H	22.37	23.16	22.85	23.64	24.11	22.37	23.16	22.85	23.64	24.11
8H	4H	21.97	22.85	22.43	23.29	23.76	21.97	22.85	22.43	23.29	23.76
	6H	22.53	23.26	23.02	23.75	24.22	22.53	23.26	23.02	23.75	24.22
	8H	22.70	23.35	23.21	23.86	24.34	22.70	23.35	23.21	23.86	24.34
	12H	22.81	23.39	23.32	23.88	24.44	22.81	23.39	23.32	23.88	24.44
12H	4H	21.99	22.78	22.47	23.26	23.73	21.99	22.78	22.47	23.26	23.73
	6H	22.56	23.21	23.06	23.72	24.21	22.56	23.21	23.06	23.72	24.21
	8H	22.77	23.35	23.28	23.84	24.40	22.77	23.35	23.28	23.84	24.40