

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: P866069

Luminaire Tested: PRLX-2001-M-935-65L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-935-65L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

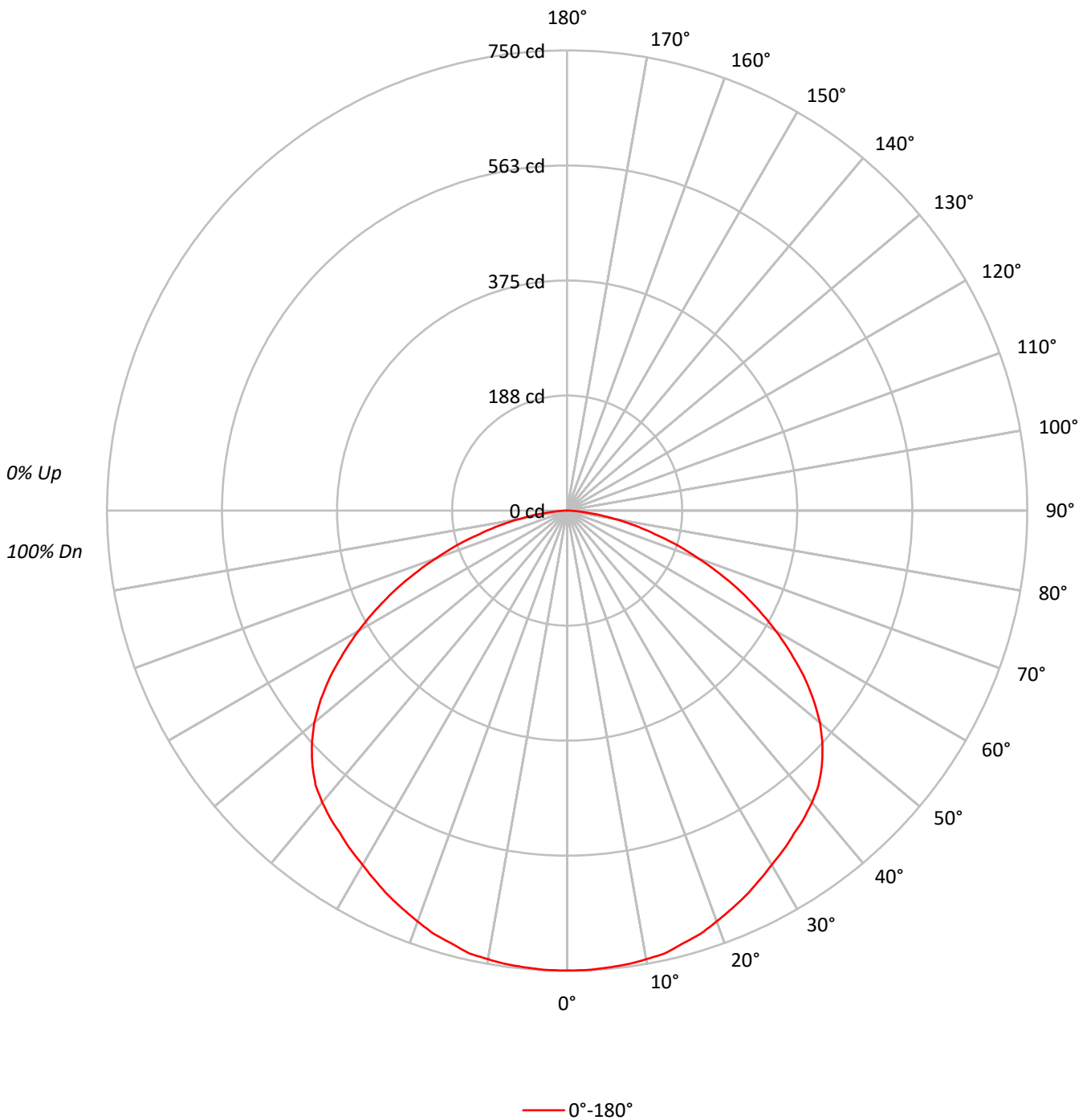
Lumens per Lamp: N/A
Luminaire Lumens: 2371.7 lumens
Efficiency: N/A
Efficacy: 40.5 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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: P866069

CATALOG NUMBER: PRLX-2001-M-935-65L-G-U-S-X-X-BRSS-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	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	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	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6361
5°	6371
10°	6399
15°	6415
20°	6435
25°	6474
30°	6533
35°	6669
40°	6878
45°	7048
50°	7103
55°	6967
60°	6675
65°	6269
70°	5645
75°	4859
80°	3880
85°	2405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 7103 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	3.0
10°-20°	206.5	8.7
20°-30°	319.0	13.5
30°-40°	404.1	17.0
40°-50°	451.8	19.0
50°-60°	419.3	17.7
60°-70°	308.0	13.0
70°-80°	159.0	6.7
80°-90°	32.9	1.4
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°	596.7	25.2
0°-40°	1000.9	42.2
0°-60°	1871.9	78.9
0°-90°	2371.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2371.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	750	
5°	748	71
15°	730	206
25°	691	319
35°	644	404
45°	587	452
55°	471	419
65°	312	308
75°	148	159
85°	25	33
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	749.6
2.5°	749.6
5°	747.9
7.5°	746.1
10°	742.6
12.5°	739.0
15°	730.2
17.5°	723.2
20°	712.6
22.5°	702.0
25°	691.4
27.5°	679.1
30°	666.7
32.5°	656.1
35°	643.8
37.5°	633.2
40°	620.9
42.5°	606.8
45°	587.3
47.5°	564.4
50°	538.0
52.5°	506.2
55°	470.9
57.5°	432.1
60°	393.3
62.5°	352.8
65°	312.2
67.5°	269.9
70°	227.5
72.5°	188.7
75°	148.2
77.5°	112.9
80°	79.4
82.5°	49.4
85°	24.7
87.5°	7.1
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	19.14	20.81	19.50	21.12	21.44	19.14	20.81	19.50	21.12	21.44
	3H	20.78	22.29	21.16	22.61	22.97	20.78	22.29	21.16	22.61	22.97
	4H	21.33	22.75	21.72	23.09	23.47	21.33	22.75	21.72	23.09	23.47
	6H	21.67	22.99	22.08	23.35	23.74	21.67	22.99	22.08	23.35	23.74
	8H	21.75	23.01	22.18	23.40	23.80	21.75	23.01	22.18	23.40	23.80
	12H	21.79	22.99	22.21	23.37	23.80	21.79	22.99	22.21	23.37	23.80
4H	2H	19.75	21.17	20.15	21.52	21.89	19.75	21.17	20.15	21.52	21.89
	3H	21.59	22.78	22.00	23.17	23.57	21.59	22.78	22.00	23.17	23.57
	4H	22.24	23.32	22.67	23.73	24.16	22.24	23.32	22.67	23.73	24.16
	6H	22.69	23.63	23.14	24.07	24.52	22.69	23.63	23.14	24.07	24.52
	8H	22.80	23.68	23.26	24.12	24.58	22.80	23.68	23.26	24.12	24.58
	12H	22.86	23.65	23.34	24.12	24.59	22.86	23.65	23.34	24.12	24.59
8H	4H	22.49	23.37	22.95	23.81	24.28	22.49	23.37	22.95	23.81	24.28
	6H	23.03	23.75	23.52	24.24	24.72	23.03	23.75	23.52	24.24	24.72
	8H	23.18	23.83	23.69	24.34	24.82	23.18	23.83	23.69	24.34	24.82
	12H	23.28	23.85	23.78	24.34	24.90	23.28	23.85	23.78	24.34	24.90
12H	4H	22.51	23.30	22.99	23.77	24.24	22.51	23.30	22.99	23.77	24.24
	6H	23.05	23.70	23.56	24.21	24.70	23.05	23.70	23.56	24.21	24.70
	8H	23.25	23.82	23.75	24.31	24.87	23.25	23.82	23.75	24.31	24.87