

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: P866070

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866070
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-935-65L-G-U-S-X-X-GREY-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

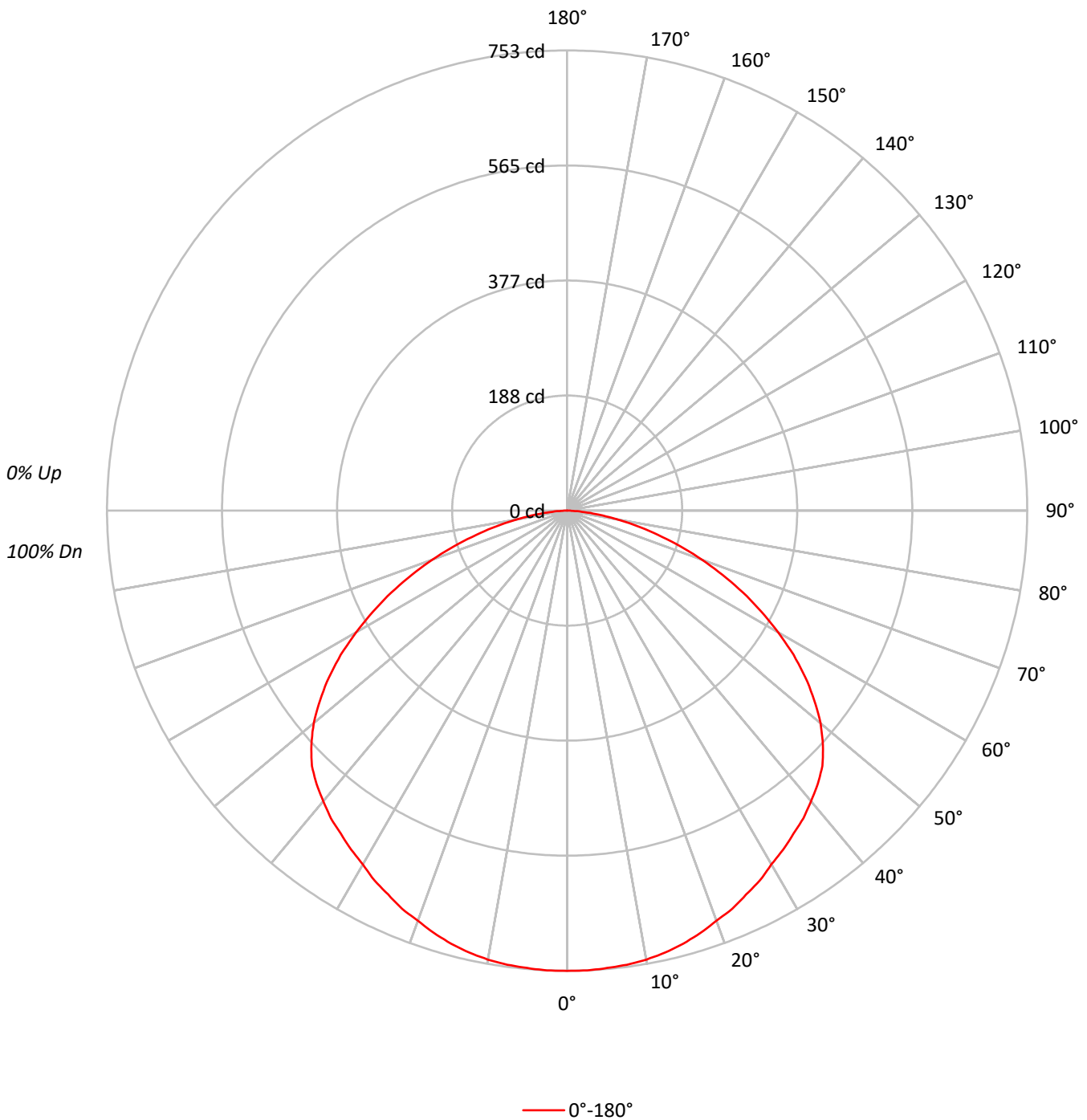
Lumens per Lamp: N/A
Luminaire Lumens: 2395.2 lumens
Efficiency: N/A
Efficacy: 40.9 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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

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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	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°	6392
5°	6401
10°	6429
15°	6446
20°	6451
25°	6491
30°	6550
35°	6688
40°	6878
45°	7091
50°	7149
55°	7045
60°	6765
65°	6375
70°	5821
75°	5033
80°	4051
85°	2746

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 7149 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	3.0
10°-20°	207.2	8.6
20°-30°	320.2	13.4
30°-40°	405.1	16.9
40°-50°	453.5	18.9
50°-60°	423.8	17.7
60°-70°	313.5	13.1
70°-80°	164.6	6.9
80°-90°	35.7	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°	599.0	25.0
0°-40°	1004.1	41.9
0°-60°	1881.5	78.6
0°-90°	2395.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2395.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	753	
5°	751	72
15°	734	207
25°	693	320
35°	646	405
45°	591	454
55°	476	424
65°	318	313
75°	154	165
85°	28	36
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	753.2
2.5°	753.2
5°	751.4
7.5°	749.6
10°	746.1
12.5°	740.8
15°	733.7
17.5°	724.9
20°	714.3
22.5°	705.5
25°	693.2
27.5°	682.6
30°	668.5
32.5°	657.9
35°	645.6
37.5°	635.0
40°	620.9
42.5°	606.8
45°	590.9
47.5°	567.9
50°	541.5
52.5°	509.7
55°	476.2
57.5°	439.2
60°	398.6
62.5°	358.1
65°	317.5
67.5°	275.2
70°	234.6
72.5°	194.0
75°	153.5
77.5°	118.2
80°	82.9
82.5°	52.9
85°	28.2
87.5°	8.8
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	19.21	20.88	19.58	21.20	21.51	19.21	20.88	19.58	21.20	21.51
	3H	20.87	22.39	21.25	22.71	23.07	20.87	22.39	21.25	22.71	23.07
	4H	21.43	22.86	21.83	23.21	23.58	21.43	22.86	21.83	23.21	23.58
	6H	21.80	23.12	22.21	23.48	23.87	21.80	23.12	22.21	23.48	23.87
	8H	21.89	23.15	22.31	23.54	23.93	21.89	23.15	22.31	23.54	23.93
	12H	21.93	23.14	22.36	23.52	23.95	21.93	23.14	22.36	23.52	23.95
4H	2H	19.82	21.25	20.22	21.59	21.97	19.82	21.25	20.22	21.59	21.97
	3H	21.69	22.88	22.10	23.28	23.68	21.69	22.88	22.10	23.28	23.68
	4H	22.36	23.44	22.79	23.85	24.29	22.36	23.44	22.79	23.85	24.29
	6H	22.83	23.77	23.28	24.21	24.67	22.83	23.77	23.28	24.21	24.67
	8H	22.95	23.83	23.41	24.27	24.74	22.95	23.83	23.41	24.27	24.74
	12H	23.02	23.81	23.50	24.29	24.76	23.02	23.81	23.50	24.29	24.76
8H	4H	22.62	23.50	23.08	23.95	24.41	22.62	23.50	23.08	23.95	24.41
	6H	23.18	23.91	23.67	24.40	24.87	23.18	23.91	23.67	24.40	24.87
	8H	23.35	24.00	23.86	24.51	24.99	23.35	24.00	23.86	24.51	24.99
	12H	23.46	24.04	23.97	24.53	25.09	23.46	24.04	23.97	24.53	25.09
12H	4H	22.64	23.43	23.12	23.91	24.38	22.64	23.43	23.12	23.91	24.38
	6H	23.21	23.86	23.71	24.37	24.86	23.21	23.86	23.71	24.37	24.86
	8H	23.42	24.00	23.93	24.49	25.05	23.42	24.00	23.93	24.49	25.05