

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: P866006

Luminaire Tested: PRLX-2001-M-930-65L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866006
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: Pentalux
Catalog Number: PRLX-2001-M-930-65L-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 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

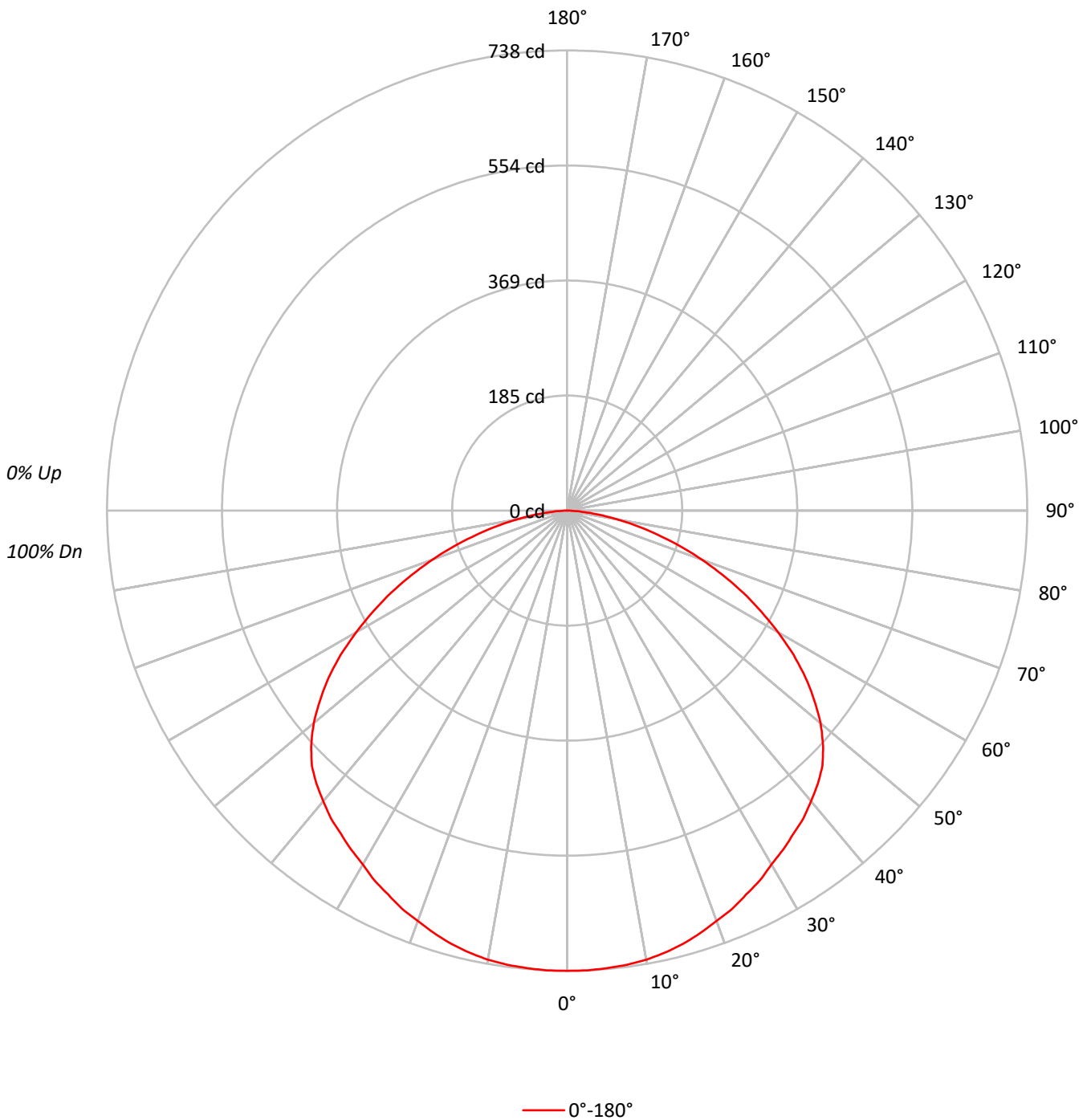
Lumens per Lamp: N/A
Luminaire Lumens: 2347.6 lumens
Efficiency: N/A
Efficacy: 40.1 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	6264
5°	6274
10°	6302
15°	6318
20°	6323
25°	6361
30°	6420
35°	6554
40°	6741
45°	6950
50°	7006
55°	6906
60°	6631
65°	6249
70°	5704
75°	4931
80°	3973
85°	2697

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 7006 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	3.0
10°-20°	203.0	8.6
20°-30°	313.9	13.4
30°-40°	397.0	16.9
40°-50°	444.5	18.9
50°-60°	415.4	17.7
60°-70°	307.2	13.1
70°-80°	161.3	6.9
80°-90°	35.0	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°	587.1	25.0
0°-40°	984.1	41.9
0°-60°	1844.1	78.6
0°-90°	2347.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2347.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	738	
5°	736	70
15°	719	203
25°	679	314
35°	633	397
45°	579	445
55°	467	415
65°	311	307
75°	150	161
85°	28	35
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	738.2
2.5°	738.2
5°	736.5
7.5°	734.7
10°	731.3
12.5°	726.1
15°	719.2
17.5°	710.5
20°	700.2
22.5°	691.5
25°	679.4
27.5°	669.0
30°	655.2
32.5°	644.8
35°	632.7
37.5°	622.4
40°	608.5
42.5°	594.7
45°	579.1
47.5°	556.7
50°	530.7
52.5°	499.6
55°	466.8
57.5°	430.5
60°	390.7
62.5°	350.9
65°	311.2
67.5°	269.7
70°	229.9
72.5°	190.2
75°	150.4
77.5°	115.8
80°	81.3
82.5°	51.9
85°	27.7
87.5°	8.6
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	19.51	21.13	21.44	19.14	20.81	19.51	21.13	21.44
	3H	20.80	22.32	21.18	22.64	23.00	20.80	22.32	21.18	22.64	23.00
	4H	21.36	22.79	21.76	23.14	23.51	21.36	22.79	21.76	23.14	23.51
	6H	21.73	23.05	22.14	23.41	23.80	21.73	23.05	22.14	23.41	23.80
	8H	21.82	23.08	22.24	23.47	23.86	21.82	23.08	22.24	23.47	23.86
	12H	21.86	23.07	22.29	23.45	23.88	21.86	23.07	22.29	23.45	23.88
4H	2H	19.75	21.18	20.15	21.52	21.90	19.75	21.18	20.15	21.52	21.90
	3H	21.62	22.81	22.03	23.21	23.61	21.62	22.81	22.03	23.21	23.61
	4H	22.29	23.37	22.72	23.78	24.22	22.29	23.37	22.72	23.78	24.22
	6H	22.76	23.70	23.21	24.14	24.60	22.76	23.70	23.21	24.14	24.60
	8H	22.88	23.76	23.34	24.20	24.67	22.88	23.76	23.34	24.20	24.67
	12H	22.95	23.75	23.43	24.22	24.69	22.95	23.75	23.43	24.22	24.69
8H	4H	22.55	23.43	23.01	23.88	24.34	22.55	23.43	23.01	23.88	24.34
	6H	23.11	23.84	23.60	24.33	24.80	23.11	23.84	23.60	24.33	24.80
	8H	23.28	23.93	23.79	24.44	24.92	23.28	23.93	23.79	24.44	24.92
	12H	23.39	23.97	23.90	24.46	25.02	23.39	23.97	23.90	24.46	25.02
12H	4H	22.57	23.36	23.05	23.84	24.31	22.57	23.36	23.05	23.84	24.31
	6H	23.14	23.79	23.64	24.30	24.79	23.14	23.79	23.64	24.30	24.79
	8H	23.35	23.93	23.86	24.42	24.98	23.35	23.93	23.86	24.42	24.98