

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: P865918

Luminaire Tested: PRLX-2001-M-927-35L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865918
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-927-35L-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 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

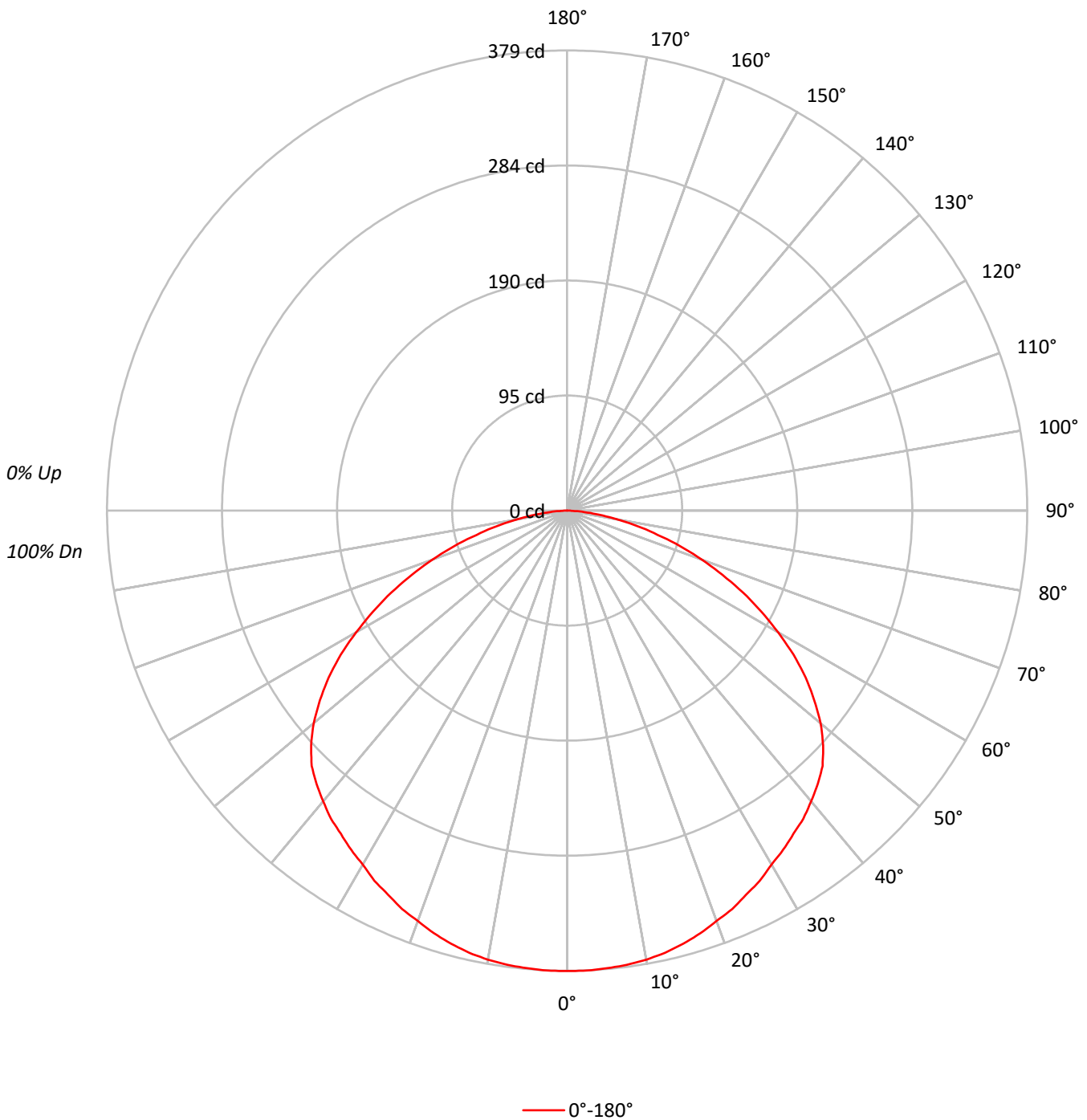
Lumens per Lamp: N/A
Luminaire Lumens: 1205.9 lumens
Efficiency: N/A
Efficacy: 40.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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°	3218
5°	3223
10°	3237
15°	3245
20°	3248
25°	3268
30°	3298
35°	3367
40°	3463
45°	3570
50°	3599
55°	3548
60°	3406
65°	3209
70°	2930
75°	2534
80°	2038
85°	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 3599 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.0	3.0
10°-20°	104.3	8.6
20°-30°	161.2	13.4
30°-40°	204.0	16.9
40°-50°	228.4	18.9
50°-60°	213.4	17.7
60°-70°	157.8	13.1
70°-80°	82.9	6.9
80°-90°	18.0	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°	301.6	25.0
0°-40°	505.5	41.9
0°-60°	947.3	78.6
0°-90°	1205.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1205.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	379	
5°	378	36
15°	369	104
25°	349	161
35°	325	204
45°	298	228
55°	240	213
65°	160	158
75°	77	83
85°	14	18
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	379.2
2.5°	379.2
5°	378.3
7.5°	377.4
10°	375.6
12.5°	373.0
15°	369.4
17.5°	365.0
20°	359.7
22.5°	355.2
25°	349.0
27.5°	343.7
30°	336.6
32.5°	331.2
35°	325.0
37.5°	319.7
40°	312.6
42.5°	305.5
45°	297.5
47.5°	286.0
50°	272.6
52.5°	256.6
55°	239.8
57.5°	221.1
60°	200.7
62.5°	180.3
65°	159.8
67.5°	138.5
70°	118.1
72.5°	97.7
75°	77.3
77.5°	59.5
80°	41.7
82.5°	26.6
85°	14.2
87.5°	4.4
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	16.83	18.50	17.19	18.81	19.13	16.83	18.50	17.19	18.81	19.13
	3H	18.49	20.00	18.87	20.33	20.69	18.49	20.00	18.87	20.33	20.69
	4H	19.05	20.47	19.45	20.82	21.20	19.05	20.47	19.45	20.82	21.20
	6H	19.41	20.73	19.82	21.10	21.49	19.41	20.73	19.82	21.10	21.49
	8H	19.50	20.76	19.92	21.15	21.55	19.50	20.76	19.92	21.15	21.55
	12H	19.54	20.75	19.97	21.14	21.56	19.54	20.75	19.97	21.14	21.56
4H	2H	17.44	18.86	17.83	19.21	19.58	17.44	18.86	17.83	19.21	19.58
	3H	19.30	20.50	19.71	20.89	21.29	19.30	20.50	19.71	20.89	21.29
	4H	19.98	21.05	20.41	21.47	21.90	19.98	21.05	20.41	21.47	21.90
	6H	20.44	21.39	20.90	21.83	22.28	20.44	21.39	20.90	21.83	22.28
	8H	20.57	21.45	21.02	21.89	22.35	20.57	21.45	21.02	21.89	22.35
	12H	20.64	21.43	21.12	21.90	22.37	20.64	21.43	21.12	21.90	22.37
8H	4H	20.24	21.12	20.70	21.56	22.02	20.24	21.12	20.70	21.56	22.02
	6H	20.79	21.53	21.29	22.01	22.49	20.79	21.53	21.29	22.01	22.49
	8H	20.96	21.62	21.47	22.12	22.61	20.96	21.62	21.47	22.12	22.61
	12H	21.08	21.66	21.58	22.15	22.71	21.08	21.66	21.58	22.15	22.71
12H	4H	20.26	21.05	20.74	21.52	21.99	20.26	21.05	20.74	21.52	21.99
	6H	20.82	21.48	21.33	21.98	22.47	20.82	21.48	21.33	21.98	22.47
	8H	21.03	21.61	21.54	22.10	22.66	21.03	21.61	21.54	22.10	22.66