

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: P865982

Luminaire Tested: PRLX-2001-M-930-35L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865982
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-930-35L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

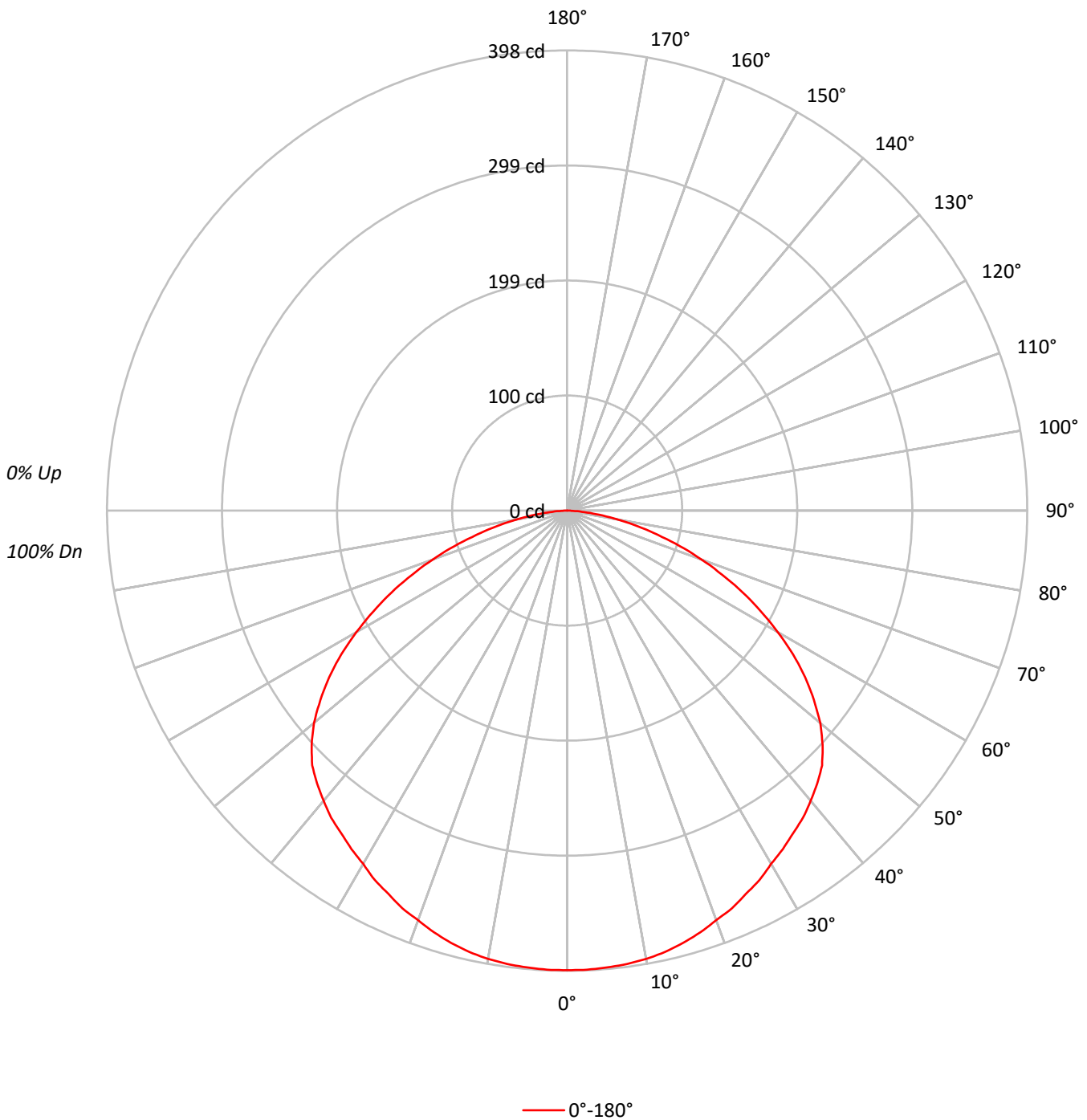
Lumens per Lamp: N/A
Luminaire Lumens: 1264.1 lumens
Efficiency: N/A
Efficacy: 42.1 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3373
5°	3378
10°	3393
15°	3402
20°	3405
25°	3425
30°	3457
35°	3529
40°	3630
45°	3742
50°	3773
55°	3718
60°	3571
65°	3365
70°	3072
75°	2656
80°	2140
85°	1451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 3773 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	3.0
10°-20°	109.3	8.6
20°-30°	169.0	13.4
30°-40°	213.8	16.9
40°-50°	239.3	18.9
50°-60°	223.7	17.7
60°-70°	165.4	13.1
70°-80°	86.9	6.9
80°-90°	18.9	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°	316.1	25.0
0°-40°	529.9	41.9
0°-60°	992.9	78.5
0°-90°	1264.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1264.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	398	
5°	397	38
15°	387	109
25°	366	169
35°	341	214
45°	312	239
55°	251	224
65°	168	165
75°	81	87
85°	15	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	397.5
2.5°	397.5
5°	396.6
7.5°	395.6
10°	393.8
12.5°	391.0
15°	387.2
17.5°	382.6
20°	377.0
22.5°	372.4
25°	365.8
27.5°	360.3
30°	352.8
32.5°	347.2
35°	340.7
37.5°	335.1
40°	327.7
42.5°	320.2
45°	311.8
47.5°	299.7
50°	285.8
52.5°	269.0
55°	251.3
57.5°	231.8
60°	210.4
62.5°	189.0
65°	167.6
67.5°	145.2
70°	123.8
72.5°	102.4
75°	81.0
77.5°	62.4
80°	43.8
82.5°	27.9
85°	14.9
87.5°	4.7
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	16.99	18.66	17.36	18.98	19.29	16.99	18.66	17.36	18.98	19.29
	3H	18.65	20.17	19.03	20.49	20.85	18.65	20.17	19.03	20.49	20.85
	4H	19.21	20.64	19.61	20.99	21.36	19.21	20.64	19.61	20.99	21.36
	6H	19.58	20.90	19.99	21.26	21.65	19.58	20.90	19.99	21.26	21.65
	8H	19.67	20.93	20.09	21.32	21.71	19.67	20.93	20.09	21.32	21.71
	12H	19.71	20.92	20.14	21.30	21.73	19.71	20.92	20.14	21.30	21.73
4H	2H	17.60	19.03	18.00	19.37	19.75	17.60	19.03	18.00	19.37	19.75
	3H	19.47	20.66	19.88	21.06	21.46	19.47	20.66	19.88	21.06	21.46
	4H	20.14	21.22	20.57	21.63	22.07	20.14	21.22	20.57	21.63	22.07
	6H	20.61	21.55	21.06	21.99	22.45	20.61	21.55	21.06	21.99	22.45
	8H	20.73	21.61	21.19	22.05	22.52	20.73	21.61	21.19	22.05	22.52
	12H	20.80	21.59	21.28	22.07	22.54	20.80	21.59	21.28	22.07	22.54
8H	4H	20.40	21.28	20.86	21.72	22.19	20.40	21.28	20.86	21.72	22.19
	6H	20.96	21.69	21.45	22.18	22.65	20.96	21.69	21.45	22.18	22.65
	8H	21.13	21.78	21.64	22.29	22.77	21.13	21.78	21.64	22.29	22.77
	12H	21.24	21.82	21.75	22.31	22.87	21.24	21.82	21.75	22.31	22.87
12H	4H	20.42	21.21	20.90	21.69	22.16	20.42	21.21	20.90	21.69	22.16
	6H	20.99	21.64	21.49	22.15	22.64	20.99	21.64	21.49	22.15	22.64
	8H	21.20	21.78	21.71	22.27	22.83	21.20	21.78	21.71	22.27	22.83