

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: P866090

Luminaire Tested: PRLX-2001-M-940-07L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-07L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

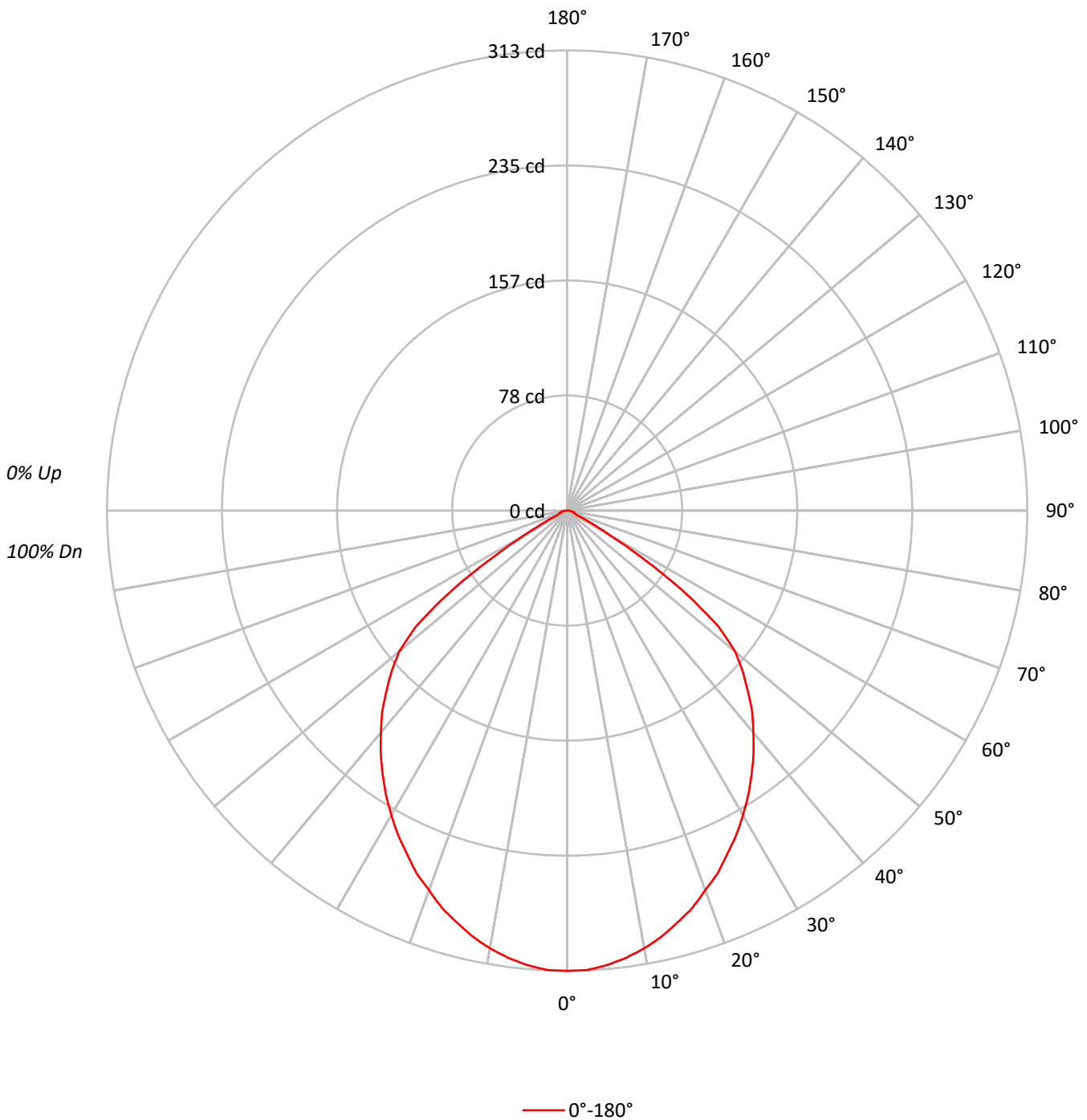
Lumens per Lamp: N/A
Luminaire Lumens: 604.8 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	85		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65		73	68	64		71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51		61	55	51		60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46		56	50	46		55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42		52	46	41		51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	38		47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34		44	39	34		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2657
5°	2644
10°	2605
15°	2548
20°	2481
25°	2413
30°	2343
35°	2267
40°	2183
45°	2086
50°	1967
55°	1474
60°	582
65°	159
70°	136
75°	148
80°	156
85°	156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2086 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.4	4.9
10°-20°	81.7	13.5
20°-30°	118.8	19.6
30°-40°	136.8	22.6
40°-50°	134.1	22.2
50°-60°	85.2	14.1
60°-70°	12.4	2.1
70°-80°	4.7	0.8
80°-90°	1.7	0.3
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°	229.9	38.0
0°-40°	366.7	60.6
0°-60°	586.0	96.9
0°-90°	604.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	604.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	313	
5°	310	29
15°	290	82
25°	258	119
35°	219	137
45°	174	134
55°	100	85
65°	8	12
75°	4	5
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	313.1
2.5°	312.7
5°	310.4
7.5°	306.8
10°	302.3
12.5°	296.8
15°	290.0
17.5°	283.3
20°	274.7
22.5°	267.2
25°	257.7
27.5°	249.0
30°	239.1
32.5°	229.3
35°	218.8
37.5°	208.2
40°	197.1
42.5°	186.3
45°	173.8
47.5°	162.0
50°	149.0
52.5°	129.8
55°	99.6
57.5°	63.5
60°	34.3
62.5°	17.2
65°	7.9
67.5°	5.7
70°	5.5
72.5°	5.1
75°	4.5
77.5°	3.9
80°	3.2
82.5°	2.4
85°	1.6
87.5°	0.8
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	10.70	12.11	11.07	12.42	12.74	10.70	12.11	11.07	12.42	12.74
	3H	10.64	11.87	11.02	12.20	12.56	10.64	11.87	11.02	12.20	12.56
	4H	10.61	11.76	11.01	12.11	12.49	10.61	11.76	11.01	12.11	12.49
	6H	10.59	11.64	11.01	12.01	12.41	10.59	11.64	11.01	12.01	12.41
	8H	10.57	11.57	11.00	11.96	12.37	10.57	11.57	11.00	11.96	12.37
	12H	10.56	11.51	10.99	11.89	12.32	10.56	11.51	10.99	11.89	12.32
4H	2H	10.55	11.69	10.95	12.04	12.42	10.55	11.69	10.95	12.04	12.42
	3H	10.51	11.43	10.92	11.84	12.24	10.51	11.43	10.92	11.84	12.24
	4H	10.50	11.32	10.93	11.74	12.18	10.50	11.32	10.93	11.74	12.18
	6H	10.51	11.22	10.97	11.66	12.13	10.51	11.22	10.97	11.66	12.13
	8H	10.50	11.16	10.97	11.61	12.08	10.50	11.16	10.97	11.61	12.08
	12H	10.49	11.08	10.97	11.56	12.03	10.49	11.08	10.97	11.56	12.03
8H	4H	10.41	11.07	10.87	11.52	11.99	10.41	11.07	10.87	11.52	11.99
	6H	10.43	10.97	10.93	11.47	11.95	10.43	10.97	10.93	11.47	11.95
	8H	10.43	10.92	10.94	11.44	11.93	10.43	10.92	10.94	11.44	11.93
	12H	10.44	10.89	10.95	11.38	11.95	10.44	10.89	10.95	11.38	11.95
12H	4H	10.37	10.96	10.85	11.44	11.91	10.37	10.96	10.85	11.44	11.91
	6H	10.38	10.88	10.90	11.39	11.88	10.38	10.88	10.90	11.39	11.88
	8H	10.40	10.85	10.92	11.35	11.92	10.40	10.85	10.92	11.35	11.92