

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: P865565

Luminaire Tested: PRLX-2001-S-940-25L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-940-25L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

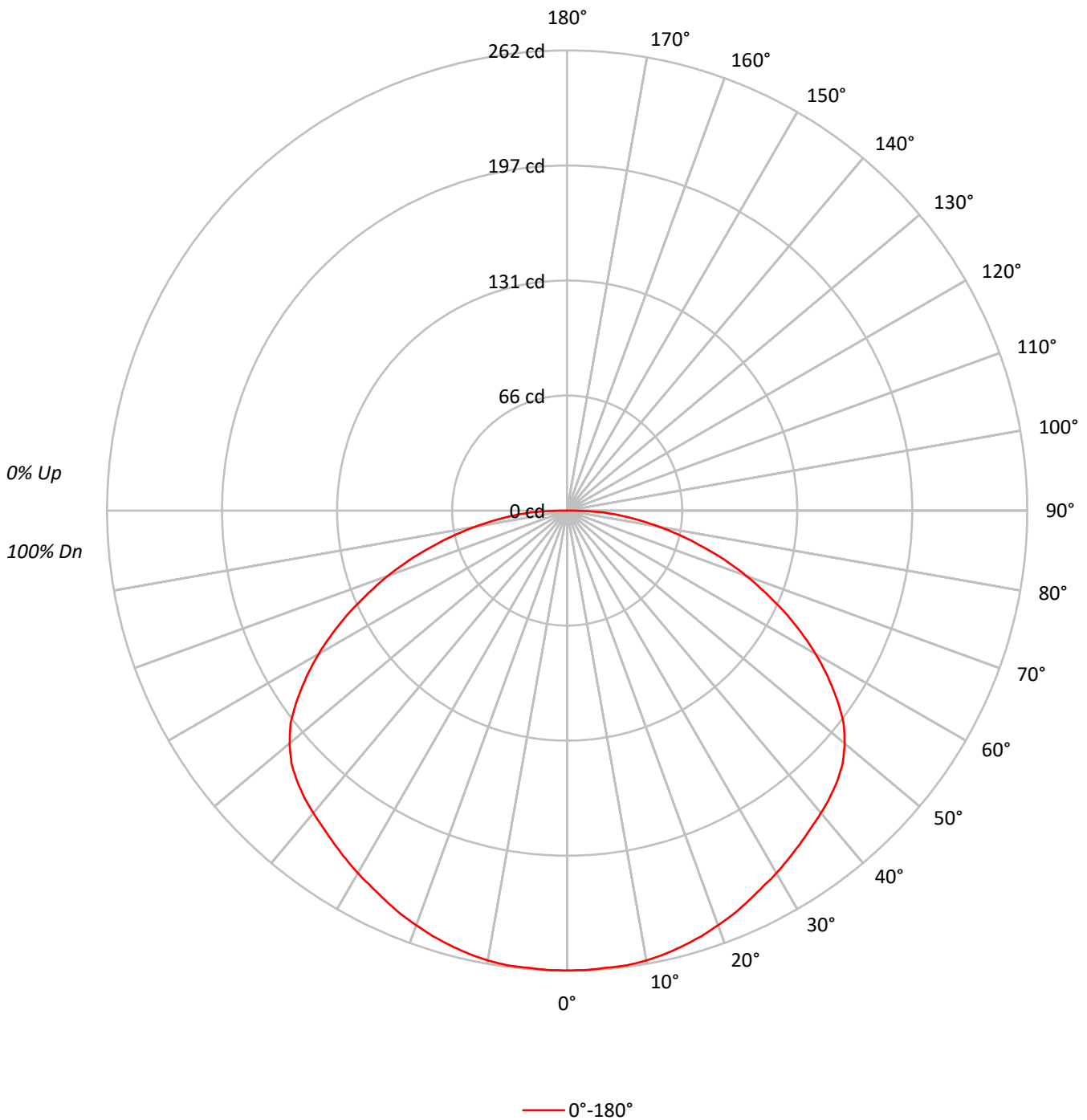
Lumens per Lamp: N/A
Luminaire Lumens: 942.0 lumens
Efficiency: N/A
Efficacy: 32.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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	107	102	97	93	105	100	95	91	95	92	89		91	89	86		88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71		79	74	70		76	72	68	66
3	88	76	67	60	85	75	66	60	72	64	59		69	63	58		66	61	57	54
4	80	67	57	50	77	66	57	50	63	55	49		61	54	48		58	53	48	45
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	36		48	41	36		47	41	36	33
7	62	48	39	32	60	47	38	32	45	38	32		44	37	31		43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28		40	33	28		39	33	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4270
5°	4278
10°	4308
15°	4329
20°	4360
25°	4407
30°	4490
35°	4607
40°	4786
45°	5019
50°	5235
55°	5335
60°	5333
65°	5272
70°	5174
75°	5054
80°	5006
85°	5464

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 6992 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.9	2.6
10°-20°	72.5	7.7
20°-30°	113.2	12.0
30°-40°	145.2	15.4
40°-50°	167.8	17.8
50°-60°	167.1	17.7
60°-70°	134.9	14.3
70°-80°	85.0	9.0
80°-90°	31.4	3.3
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°	210.6	22.4
0°-40°	355.8	37.8
0°-60°	690.7	73.3
0°-90°	942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	942.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	262	
5°	261	25
15°	256	72
25°	245	113
35°	231	145
45°	218	168
55°	188	167
65°	137	135
75°	80	85
85°	29	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	261.8
2.5°	261.8
5°	261.3
7.5°	261.1
10°	260.1
12.5°	258.5
15°	256.4
17.5°	254.1
20°	251.2
22.5°	248.4
25°	244.9
27.5°	241.4
30°	238.4
32.5°	234.9
35°	231.4
37.5°	227.9
40°	224.8
42.5°	221.5
45°	217.6
47.5°	212.9
50°	206.3
52.5°	198.4
55°	187.6
57.5°	175.9
60°	163.5
62.5°	150.2
65°	136.6
67.5°	122.1
70°	108.5
72.5°	94.5
75°	80.2
77.5°	66.7
80°	53.3
82.5°	40.7
85°	29.2
87.5°	18.7
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	18.30	20.03	18.66	20.35	20.66	18.30	20.03	18.66	20.35	20.66
	3H	20.31	21.89	20.68	22.21	22.57	20.31	21.89	20.68	22.21	22.57
	4H	21.12	22.61	21.52	22.96	23.33	21.12	22.61	21.52	22.96	23.33
	6H	21.79	23.18	22.20	23.54	23.93	21.79	23.18	22.20	23.54	23.93
	8H	22.05	23.38	22.47	23.77	24.17	22.05	23.38	22.47	23.77	24.17
	12H	22.28	23.55	22.70	23.93	24.36	22.28	23.55	22.70	23.93	24.36
4H	2H	19.00	20.50	19.40	20.84	21.22	19.00	20.50	19.40	20.84	21.22
	3H	21.24	22.51	21.65	22.90	23.30	21.24	22.51	21.65	22.90	23.30
	4H	22.20	23.35	22.63	23.76	24.19	22.20	23.35	22.63	23.76	24.19
	6H	23.02	24.03	23.47	24.47	24.92	23.02	24.03	23.47	24.47	24.92
	8H	23.35	24.30	23.80	24.74	25.20	23.35	24.30	23.80	24.74	25.20
	12H	23.64	24.50	24.12	24.98	25.44	23.64	24.50	24.12	24.98	25.44
8H	4H	22.59	23.54	23.05	23.98	24.45	22.59	23.54	23.05	23.98	24.45
	6H	23.57	24.37	24.06	24.85	25.32	23.57	24.37	24.06	24.85	25.32
	8H	24.00	24.72	24.50	25.22	25.70	24.00	24.72	24.50	25.22	25.70
	12H	24.42	25.05	24.92	25.54	26.10	24.42	25.05	24.92	25.54	26.10
12H	4H	22.66	23.52	23.13	23.99	24.45	22.66	23.52	23.13	23.99	24.45
	6H	23.67	24.39	24.17	24.89	25.37	23.67	24.39	24.17	24.89	25.37
	8H	24.18	24.82	24.68	25.30	25.86	24.18	24.82	24.68	25.30	25.86