

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: P865724

Luminaire Tested: PRLX-2002-S-940-25L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-940-25L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

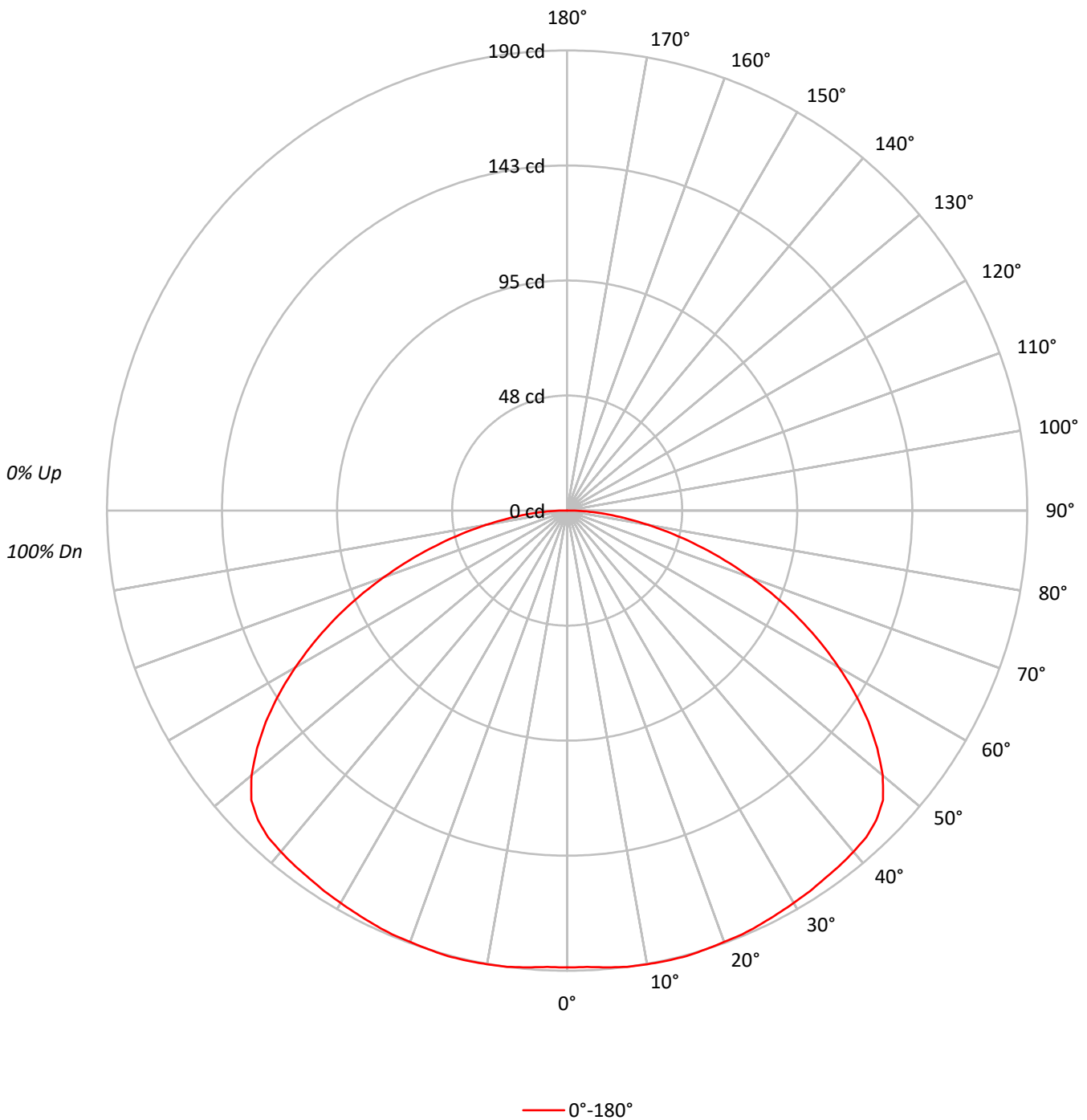
Lumens per Lamp: N/A
Luminaire Lumens: 731.1 lumens
Efficiency: N/A
Efficacy: 25.1 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.65
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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: 0.333 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	108	103	98	94	105	100	96	92	96	93	89		92	89	87		89	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	59		69	63	58		67	62	57	55
4	80	67	58	51	78	66	57	51	63	56	50		61	54	49		59	53	48	46
5	73	60	50	43	71	59	50	43	56	48	42		54	47	42		52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	37		49	42	36		47	41	36	34
7	62	48	39	32	60	47	38	32	46	38	32		44	37	32		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	36	28	23	49	36	28	23	35	28	23		34	27	22		33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3543
5°	3569
10°	3628
15°	3703
20°	3788
25°	3909
30°	4058
35°	4254
40°	4509
45°	4798
50°	4971
55°	4971
60°	4869
65°	4698
70°	4421
75°	4072
80°	3667
85°	3276

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 4980 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.1	2.5
10°-20°	53.9	7.4
20°-30°	87.2	11.9
30°-40°	116.5	15.9
40°-50°	138.8	19.0
50°-60°	135.2	18.5
60°-70°	104.4	14.3
70°-80°	59.7	8.2
80°-90°	17.4	2.4
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°	159.2	21.8
0°-40°	275.7	37.7
0°-60°	549.7	75.2
0°-90°	731.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	731.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	189	
5°	189	18
15°	190	54
25°	189	87
35°	186	117
45°	181	139
55°	152	135
65°	106	104
75°	56	60
85°	15	17
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	188.6
2.5°	188.6
5°	189.3
7.5°	190.0
10°	190.2
12.5°	190.4
15°	190.4
17.5°	190.0
20°	189.5
22.5°	189.3
25°	188.6
27.5°	187.8
30°	187.1
32.5°	186.4
35°	185.5
37.5°	184.8
40°	183.9
42.5°	182.9
45°	180.6
47.5°	176.9
50°	170.1
52.5°	161.4
55°	151.8
57.5°	141.1
60°	129.6
62.5°	117.9
65°	105.7
67.5°	93.3
70°	80.5
72.5°	68.3
75°	56.1
77.5°	44.7
80°	33.9
82.5°	23.9
85°	15.2
87.5°	8.0
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	18.14	19.87	18.50	20.18	20.50	18.14	19.87	18.50	20.18	20.50
	3H	19.97	21.54	20.35	21.86	22.22	19.97	21.54	20.35	21.86	22.22
	4H	20.64	22.12	21.04	22.47	22.84	20.64	22.12	21.04	22.47	22.84
	6H	21.14	22.52	21.55	22.88	23.27	21.14	22.52	21.55	22.88	23.27
	8H	21.30	22.62	21.73	23.01	23.41	21.30	22.62	21.73	23.01	23.41
	12H	21.42	22.68	21.85	23.07	23.49	21.42	22.68	21.85	23.07	23.49
4H	2H	18.80	20.28	19.20	20.63	21.00	18.80	20.28	19.20	20.63	21.00
	3H	20.84	22.09	21.25	22.49	22.89	20.84	22.09	21.25	22.49	22.89
	4H	21.64	22.78	22.07	23.19	23.62	21.64	22.78	22.07	23.19	23.62
	6H	22.27	23.27	22.72	23.70	24.16	22.27	23.27	22.72	23.70	24.16
	8H	22.49	23.42	22.94	23.86	24.32	22.49	23.42	22.94	23.86	24.32
	12H	22.65	23.49	23.13	23.96	24.43	22.65	23.49	23.13	23.96	24.43
8H	4H	21.97	22.90	22.43	23.34	23.80	21.97	22.90	22.43	23.34	23.80
	6H	22.72	23.50	23.21	23.98	24.46	22.72	23.50	23.21	23.98	24.46
	8H	23.01	23.71	23.51	24.21	24.69	23.01	23.71	23.51	24.21	24.69
	12H	23.25	23.87	23.76	24.36	24.92	23.25	23.87	23.76	24.36	24.92
12H	4H	22.01	22.85	22.49	23.32	23.79	22.01	22.85	22.49	23.32	23.79
	6H	22.78	23.48	23.29	23.98	24.47	22.78	23.48	23.29	23.98	24.47
	8H	23.13	23.75	23.63	24.24	24.79	23.13	23.75	23.63	24.24	24.79