

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: P865564

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-6)
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-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

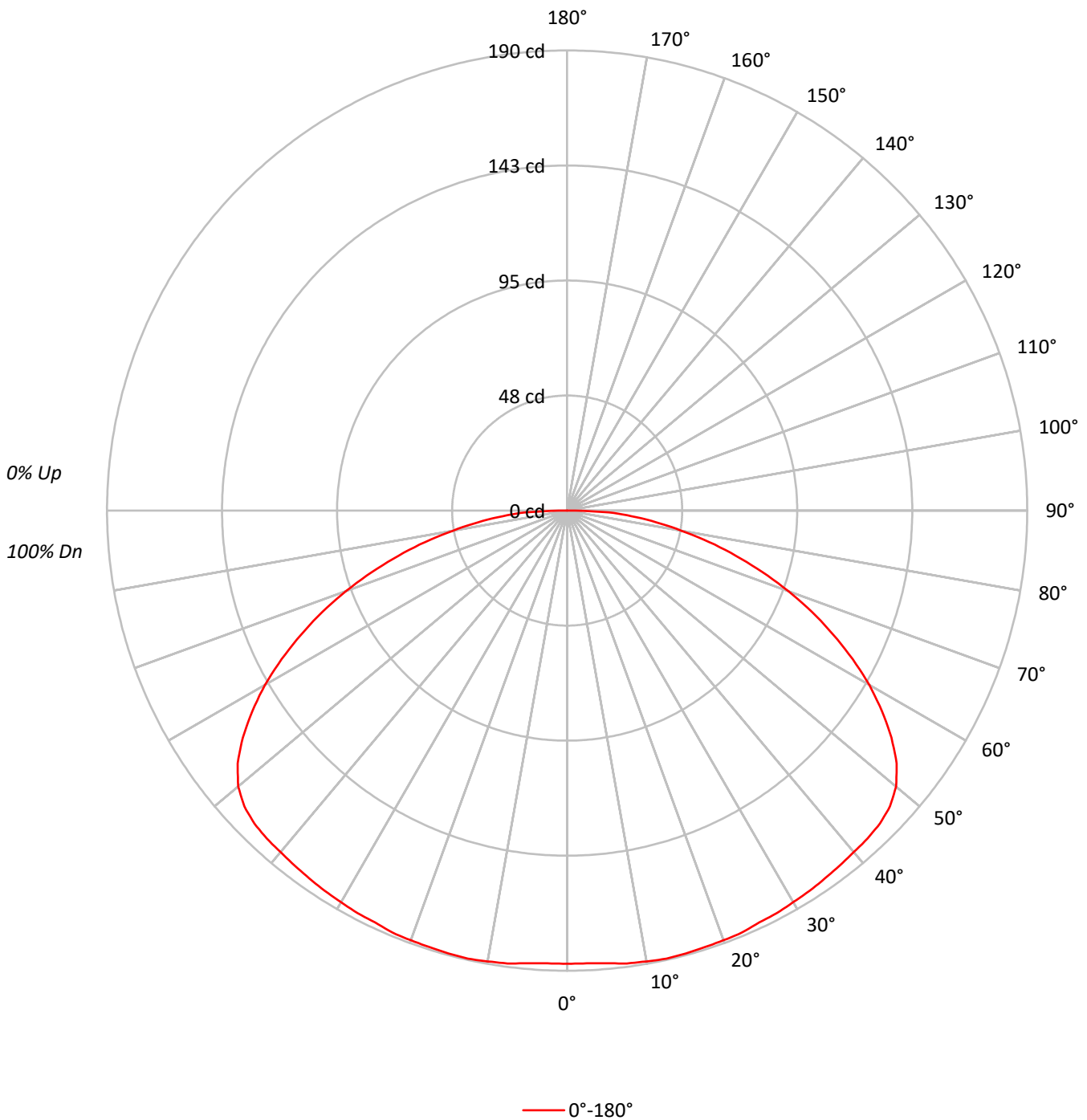
Lumens per Lamp: N/A
Luminaire Lumens: 786.1 lumens
Efficiency: N/A
Efficacy: 27.0 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.69
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	92	104	99	95	91	95	91	88		91	88	85		87	85	82	80
2	96	87	79	73	93	85	78	72	81	75	70		78	73	68		75	71	67	64
3	87	75	66	59	84	73	65	58	70	63	57		67	61	56		65	60	55	53
4	79	66	56	49	76	64	55	48	62	54	47		59	52	47		57	51	46	44
5	72	58	48	41	70	57	48	41	55	46	40		53	45	40		51	44	39	37
6	66	52	42	35	64	51	42	35	49	41	35		47	40	34		45	39	34	32
7	61	46	37	30	59	46	37	30	44	36	30		43	35	30		41	35	30	27
8	57	42	33	27	55	41	33	27	40	32	27		39	32	26		37	31	26	24
9	53	38	30	24	51	38	29	24	37	29	24		35	28	23		34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21		33	26	21		32	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3052
5°	3071
10°	3130
15°	3196
20°	3277
25°	3376
30°	3516
35°	3693
40°	3920
45°	4214
50°	4499
55°	4649
60°	4701
65°	4677
70°	4630
75°	4544
80°	4508
85°	4997

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 6469 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.0	2.3
10°-20°	53.6	6.8
20°-30°	86.9	11.1
30°-40°	116.5	14.8
40°-50°	140.8	17.9
50°-60°	145.5	18.5
60°-70°	119.9	15.2
70°-80°	76.3	9.7
80°-90°	28.6	3.6
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°	158.5	20.2
0°-40°	275.0	35.0
0°-60°	561.3	71.4
0°-90°	786.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	786.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	187	
5°	188	18
15°	189	54
25°	188	87
35°	186	116
45°	183	141
55°	164	145
65°	121	120
75°	72	76
85°	27	29
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	187.1
2.5°	187.1
5°	187.6
7.5°	188.6
10°	189.0
12.5°	189.5
15°	189.3
17.5°	189.0
20°	188.8
22.5°	188.6
25°	187.6
27.5°	187.4
30°	186.7
32.5°	186.2
35°	185.5
37.5°	184.8
40°	184.1
42.5°	183.6
45°	182.7
47.5°	180.8
50°	177.3
52.5°	171.5
55°	163.5
57.5°	154.2
60°	144.1
62.5°	132.9
65°	121.2
67.5°	109.5
70°	97.1
72.5°	84.5
75°	72.1
77.5°	60.1
80°	48.0
82.5°	37.2
85°	26.7
87.5°	17.3
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	17.97	19.74	18.33	20.05	20.37	17.97	19.74	18.33	20.05	20.37
	3H	20.05	21.66	20.43	21.99	22.35	20.05	21.66	20.43	21.99	22.35
	4H	20.88	22.41	21.28	22.76	23.13	20.88	22.41	21.28	22.76	23.13
	6H	21.57	23.00	21.98	23.36	23.75	21.57	23.00	21.98	23.36	23.75
	8H	21.85	23.21	22.27	23.60	24.00	21.85	23.21	22.27	23.60	24.00
	12H	22.09	23.40	22.51	23.78	24.20	22.09	23.40	22.51	23.78	24.20
4H	2H	18.70	20.22	19.09	20.57	20.94	18.70	20.22	19.09	20.57	20.94
	3H	21.00	22.30	21.41	22.69	23.09	21.00	22.30	21.41	22.69	23.09
	4H	21.98	23.16	22.41	23.57	24.00	21.98	23.16	22.41	23.57	24.00
	6H	22.82	23.86	23.27	24.30	24.75	22.82	23.86	23.27	24.30	24.75
	8H	23.17	24.14	23.62	24.58	25.05	23.17	24.14	23.62	24.58	25.05
	12H	23.48	24.36	23.95	24.84	25.30	23.48	24.36	23.95	24.84	25.30
8H	4H	22.39	23.37	22.84	23.81	24.27	22.39	23.37	22.84	23.81	24.27
	6H	23.39	24.21	23.88	24.70	25.17	23.39	24.21	23.88	24.70	25.17
	8H	23.84	24.58	24.34	25.08	25.56	23.84	24.58	24.34	25.08	25.56
	12H	24.27	24.93	24.77	25.42	25.97	24.27	24.93	24.77	25.42	25.97
12H	4H	22.46	23.34	22.93	23.81	24.28	22.46	23.34	22.93	23.81	24.28
	6H	23.50	24.24	24.00	24.74	25.22	23.50	24.24	24.00	24.74	25.22
	8H	24.02	24.68	24.53	25.17	25.72	24.02	24.68	24.53	25.17	25.72