

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: P865571

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-S-940-25L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

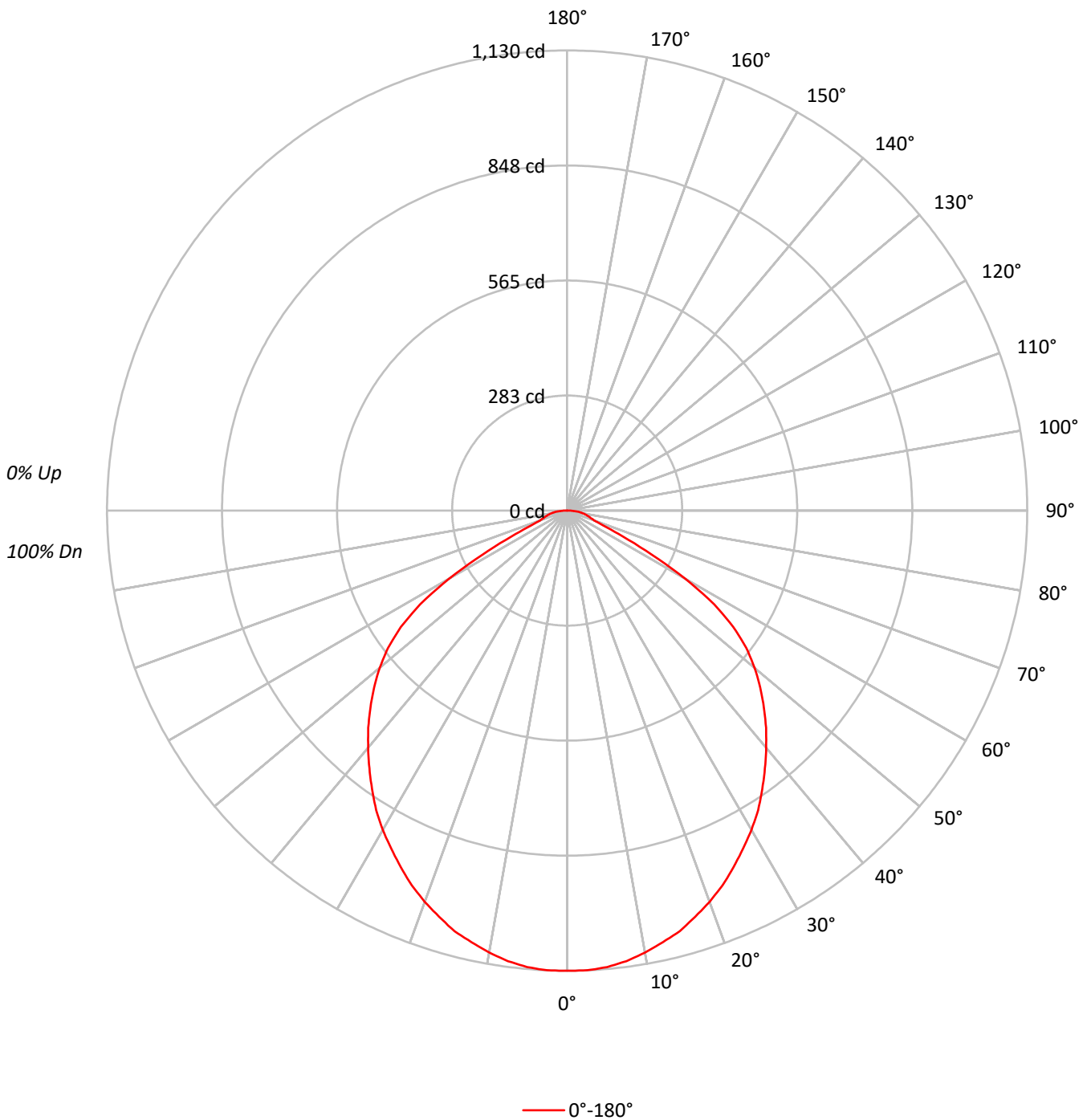
Lumens per Lamp: N/A
Luminaire Lumens: 2585.6 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18429
5°	18422
10°	18248
15°	18052
20°	17744
25°	17388
30°	17050
35°	16630
40°	16188
45°	15756
50°	15255
55°	14170
60°	10911
65°	5777
70°	3348
75°	3390
80°	3738
85°	4379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15756 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	4.1
10°-20°	300.9	11.6
20°-30°	445.3	17.2
30°-40°	522.5	20.2
40°-50°	526.9	20.4
50°-60°	434.8	16.8
60°-70°	167.5	6.5
70°-80°	57.1	2.2
80°-90°	23.9	0.9
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°	852.9	33.0
0°-40°	1375.4	53.2
0°-60°	2337.1	90.4
0°-90°	2585.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2585.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1130	
5°	1125	107
15°	1069	301
25°	966	445
35°	835	522
45°	683	527
55°	498	435
65°	150	167
75°	54	57
85°	23	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1129.9
2.5°	1129.9
5°	1125.2
7.5°	1115.9
10°	1101.8
12.5°	1085.5
15°	1069.1
17.5°	1045.7
20°	1022.3
22.5°	996.6
25°	966.2
27.5°	935.8
30°	905.3
32.5°	872.6
35°	835.2
37.5°	797.7
40°	760.3
42.5°	722.9
45°	683.1
47.5°	643.3
50°	601.2
52.5°	554.4
55°	498.3
57.5°	428.1
60°	334.5
62.5°	233.9
65°	149.7
67.5°	95.9
70°	70.2
72.5°	60.8
75°	53.8
77.5°	46.8
80°	39.8
82.5°	32.8
85°	23.4
87.5°	11.7
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	21.18	22.69	21.54	23.00	23.32	21.18	22.69	21.54	23.00	23.32
	3H	21.32	22.66	21.70	22.99	23.35	21.32	22.66	21.70	22.99	23.35
	4H	21.38	22.64	21.78	22.99	23.36	21.38	22.64	21.78	22.99	23.36
	6H	21.46	22.62	21.88	22.99	23.38	21.46	22.62	21.88	22.99	23.38
	8H	21.51	22.61	21.93	23.00	23.40	21.51	22.61	21.93	23.00	23.40
	12H	21.55	22.60	21.98	22.98	23.41	21.55	22.60	21.98	22.98	23.41
4H	2H	21.21	22.47	21.62	22.82	23.20	21.21	22.47	21.62	22.82	23.20
	3H	21.43	22.46	21.84	22.86	23.26	21.43	22.46	21.84	22.86	23.26
	4H	21.55	22.47	21.98	22.89	23.33	21.55	22.47	21.98	22.89	23.33
	6H	21.72	22.52	22.18	22.96	23.42	21.72	22.52	22.18	22.96	23.42
	8H	21.80	22.55	22.27	22.99	23.46	21.80	22.55	22.27	22.99	23.46
	12H	21.89	22.56	22.38	23.04	23.51	21.89	22.56	22.38	23.04	23.51
8H	4H	21.54	22.29	22.01	22.74	23.20	21.54	22.29	22.01	22.74	23.20
	6H	21.78	22.40	22.28	22.89	23.37	21.78	22.40	22.28	22.89	23.37
	8H	21.92	22.48	22.44	22.99	23.48	21.92	22.48	22.44	22.99	23.48
	12H	22.08	22.58	22.59	23.07	23.64	22.08	22.58	22.59	23.07	23.64
12H	4H	21.53	22.20	22.02	22.68	23.15	21.53	22.20	22.02	22.68	23.15
	6H	21.78	22.33	22.29	22.85	23.33	21.78	22.33	22.29	22.85	23.33
	8H	21.97	22.46	22.48	22.96	23.52	21.97	22.46	22.48	22.96	23.52