

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: P865887

Luminaire Tested: PRLX-2004-S-940-25L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-940-25L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

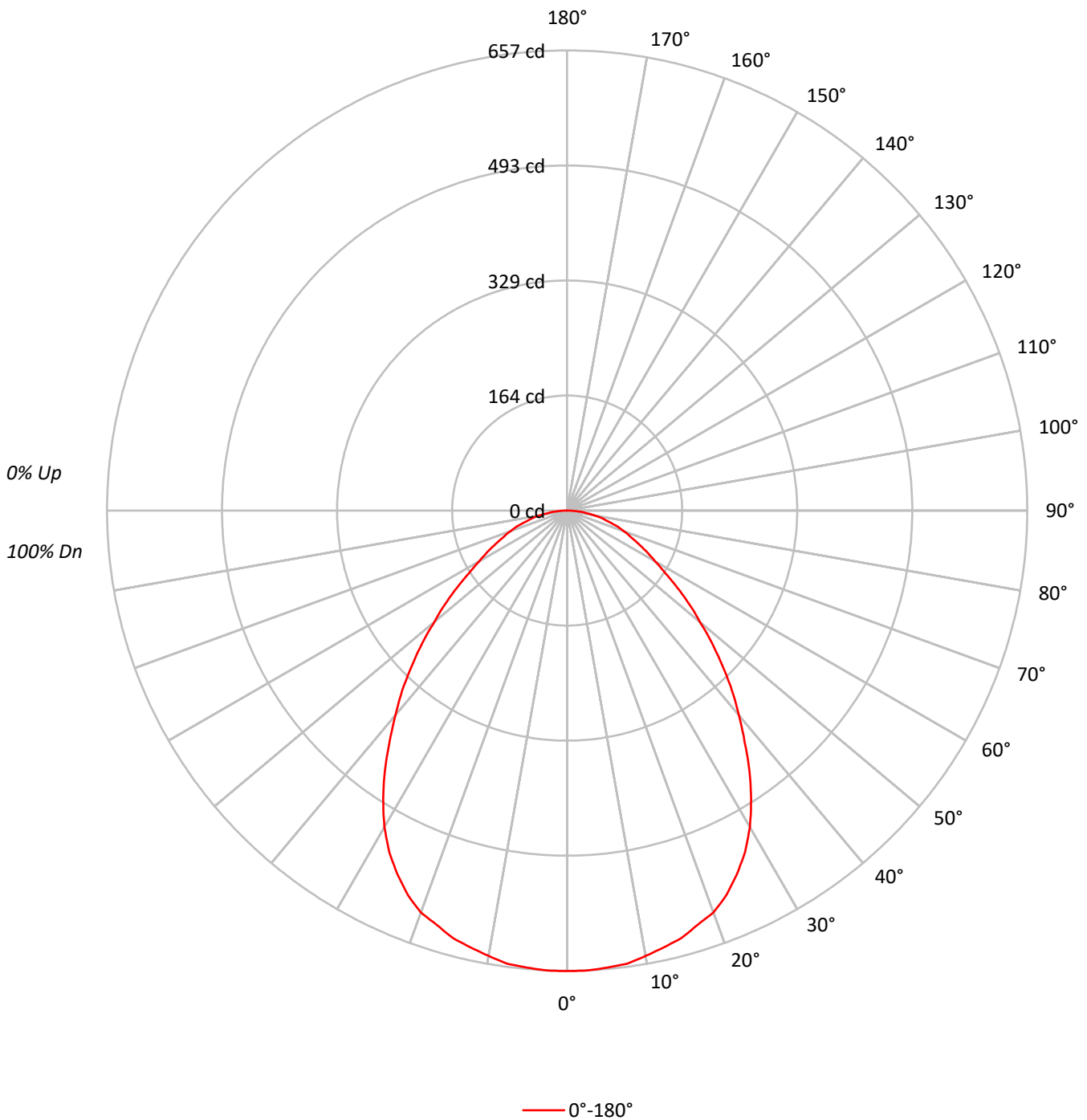
Lumens per Lamp: N/A
Luminaire Lumens: 1400.0 lumens
Efficiency: N/A
Efficacy: 48.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.21
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	50	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10722
5°	10724
10°	10694
15°	10665
20°	10598
25°	10314
30°	9825
35°	9036
40°	8118
45°	7231
50°	6293
55°	5454
60°	4730
65°	4334
70°	4130
75°	3831
80°	3738
85°	3499

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7231 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	4.4
10°-20°	177.9	12.7
20°-30°	263.0	18.8
30°-40°	282.6	20.2
40°-50°	242.0	17.3
50°-60°	172.8	12.3
60°-70°	112.6	8.0
70°-80°	66.0	4.7
80°-90°	20.7	1.5
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°	503.2	35.9
0°-40°	785.8	56.1
0°-60°	1200.6	85.8
0°-90°	1400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1400.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	657	
5°	655	62
15°	632	178
25°	573	263
35°	454	283
45°	314	242
55°	192	173
65°	112	113
75°	61	66
85°	19	21
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	657.4
2.5°	657.4
5°	655.0
7.5°	652.7
10°	645.7
12.5°	638.6
15°	631.6
17.5°	619.9
20°	610.6
22.5°	594.2
25°	573.1
27.5°	549.8
30°	521.7
32.5°	488.9
35°	453.8
37.5°	416.4
40°	381.3
42.5°	348.6
45°	313.5
47.5°	280.7
50°	248.0
52.5°	219.9
55°	191.8
57.5°	166.1
60°	145.0
62.5°	128.7
65°	112.3
67.5°	98.3
70°	86.6
72.5°	74.9
75°	60.8
77.5°	51.5
80°	39.8
82.5°	28.1
85°	18.7
87.5°	9.4
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	16.80	18.30	17.17	18.61	18.93	16.80	18.30	17.17	18.61	18.93
	3H	18.34	19.68	18.72	20.01	20.37	18.34	19.68	18.72	20.01	20.37
	4H	18.96	20.21	19.36	20.56	20.94	18.96	20.21	19.36	20.56	20.94
	6H	19.47	20.63	19.89	21.00	21.39	19.47	20.63	19.89	21.00	21.39
	8H	19.65	20.75	20.07	21.14	21.54	19.65	20.75	20.07	21.14	21.54
	12H	19.77	20.83	20.20	21.21	21.64	19.77	20.83	20.20	21.21	21.64
4H	2H	17.30	18.56	17.70	18.91	19.29	17.30	18.56	17.70	18.91	19.29
	3H	19.09	20.14	19.51	20.54	20.94	19.09	20.14	19.51	20.54	20.94
	4H	19.84	20.78	20.28	21.20	21.64	19.84	20.78	20.28	21.20	21.64
	6H	20.51	21.33	20.97	21.77	22.23	20.51	21.33	20.97	21.77	22.23
	8H	20.73	21.50	21.20	21.94	22.41	20.73	21.50	21.20	21.94	22.41
	12H	20.91	21.59	21.39	22.07	22.54	20.91	21.59	21.39	22.07	22.54
8H	4H	20.14	20.90	20.60	21.35	21.81	20.14	20.90	20.60	21.35	21.81
	6H	20.93	21.57	21.43	22.06	22.54	20.93	21.57	21.43	22.06	22.54
	8H	21.24	21.81	21.75	22.32	22.81	21.24	21.81	21.75	22.32	22.81
	12H	21.50	22.01	22.01	22.50	23.06	21.50	22.01	22.01	22.50	23.06
12H	4H	20.17	20.85	20.65	21.33	21.80	20.17	20.85	20.65	21.33	21.80
	6H	20.99	21.56	21.51	22.07	22.56	20.99	21.56	21.51	22.07	22.56
	8H	21.36	21.86	21.87	22.35	22.92	21.36	21.86	21.87	22.35	22.92