

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: P865557

Luminaire Tested: PRLX-2001-S-940-20L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865557
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-940-20L-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 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

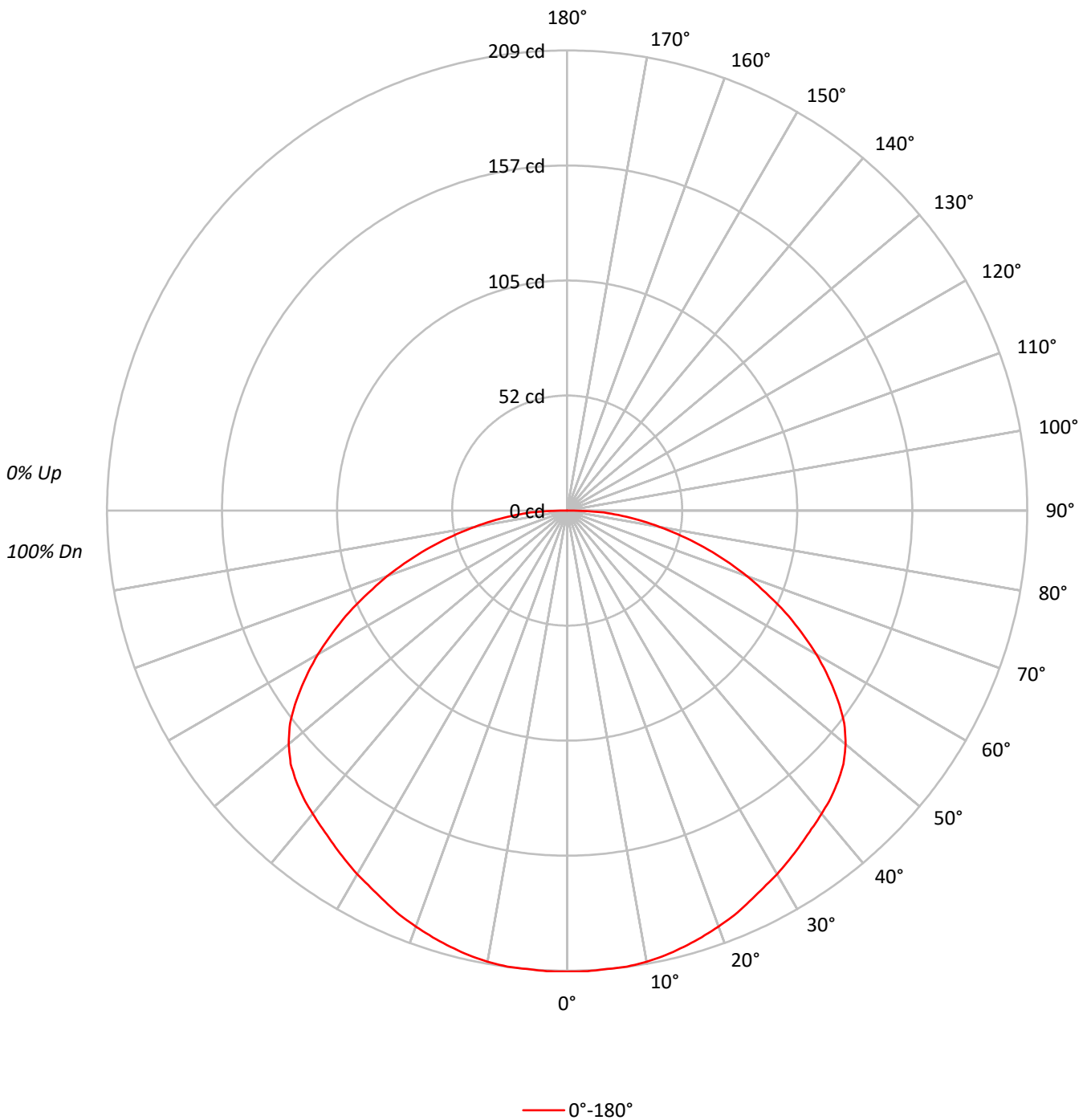
Lumens per Lamp: N/A
Luminaire Lumens: 753.6 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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	32	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°	3415
5°	3422
10°	3446
15°	3463
20°	3489
25°	3525
30°	3592
35°	3686
40°	3828
45°	4013
50°	4189
55°	4268
60°	4267
65°	4218
70°	4139
75°	4046
80°	4011
85°	4379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 5609 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	2.6
10°-20°	58.0	7.7
20°-30°	90.5	12.0
30°-40°	116.2	15.4
40°-50°	134.2	17.8
50°-60°	133.7	17.7
60°-70°	107.9	14.3
70°-80°	68.0	9.0
80°-90°	25.1	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°	168.5	22.4
0°-40°	284.6	37.8
0°-60°	552.5	73.3
0°-90°	753.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	753.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	209	
5°	209	20
15°	205	58
25°	196	91
35°	185	116
45°	174	134
55°	150	134
65°	109	108
75°	64	68
85°	23	25
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	209.4
2.5°	209.4
5°	209.0
7.5°	208.9
10°	208.1
12.5°	206.8
15°	205.1
17.5°	203.2
20°	201.0
22.5°	198.8
25°	195.9
27.5°	193.1
30°	190.7
32.5°	187.9
35°	185.1
37.5°	182.3
40°	179.8
42.5°	177.2
45°	174.0
47.5°	170.3
50°	165.1
52.5°	158.7
55°	150.1
57.5°	140.7
60°	130.8
62.5°	120.1
65°	109.3
67.5°	97.7
70°	86.8
72.5°	75.6
75°	64.2
77.5°	53.3
80°	42.7
82.5°	32.6
85°	23.4
87.5°	15.0
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	17.52	19.26	17.89	19.57	19.88	17.52	19.26	17.89	19.57	19.88
	3H	19.53	21.11	19.91	21.44	21.79	19.53	21.11	19.91	21.44	21.79
	4H	20.34	21.84	20.74	22.18	22.56	20.34	21.84	20.74	22.18	22.56
	6H	21.01	22.40	21.42	22.77	23.16	21.01	22.40	21.42	22.77	23.16
	8H	21.28	22.61	21.70	23.00	23.39	21.28	22.61	21.70	23.00	23.39
	12H	21.50	22.78	21.93	23.16	23.59	21.50	22.78	21.93	23.16	23.59
4H	2H	18.23	19.72	18.62	20.07	20.44	18.23	19.72	18.62	20.07	20.44
	3H	20.47	21.73	20.88	22.13	22.53	20.47	21.73	20.88	22.13	22.53
	4H	21.42	22.57	21.85	22.99	23.42	21.42	22.57	21.85	22.99	23.42
	6H	22.24	23.26	22.69	23.70	24.15	22.24	23.26	22.69	23.70	24.15
	8H	22.57	23.52	23.03	23.96	24.43	22.57	23.52	23.03	23.96	24.43
	12H	22.87	23.73	23.35	24.20	24.67	22.87	23.73	23.35	24.20	24.67
8H	4H	21.82	22.77	22.27	23.21	23.67	21.82	22.77	22.27	23.21	23.67
	6H	22.80	23.59	23.29	24.08	24.55	22.80	23.59	23.29	24.08	24.55
	8H	23.23	23.95	23.73	24.45	24.93	23.23	23.95	23.73	24.45	24.93
	12H	23.64	24.28	24.15	24.77	25.32	23.64	24.28	24.15	24.77	25.32
12H	4H	21.88	22.74	22.36	23.21	23.68	21.88	22.74	22.36	23.21	23.68
	6H	22.90	23.62	23.40	24.12	24.60	22.90	23.62	23.40	24.12	24.60
	8H	23.40	24.04	23.91	24.53	25.09	23.40	24.04	23.91	24.53	25.09