

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: P865559

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-1)
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-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

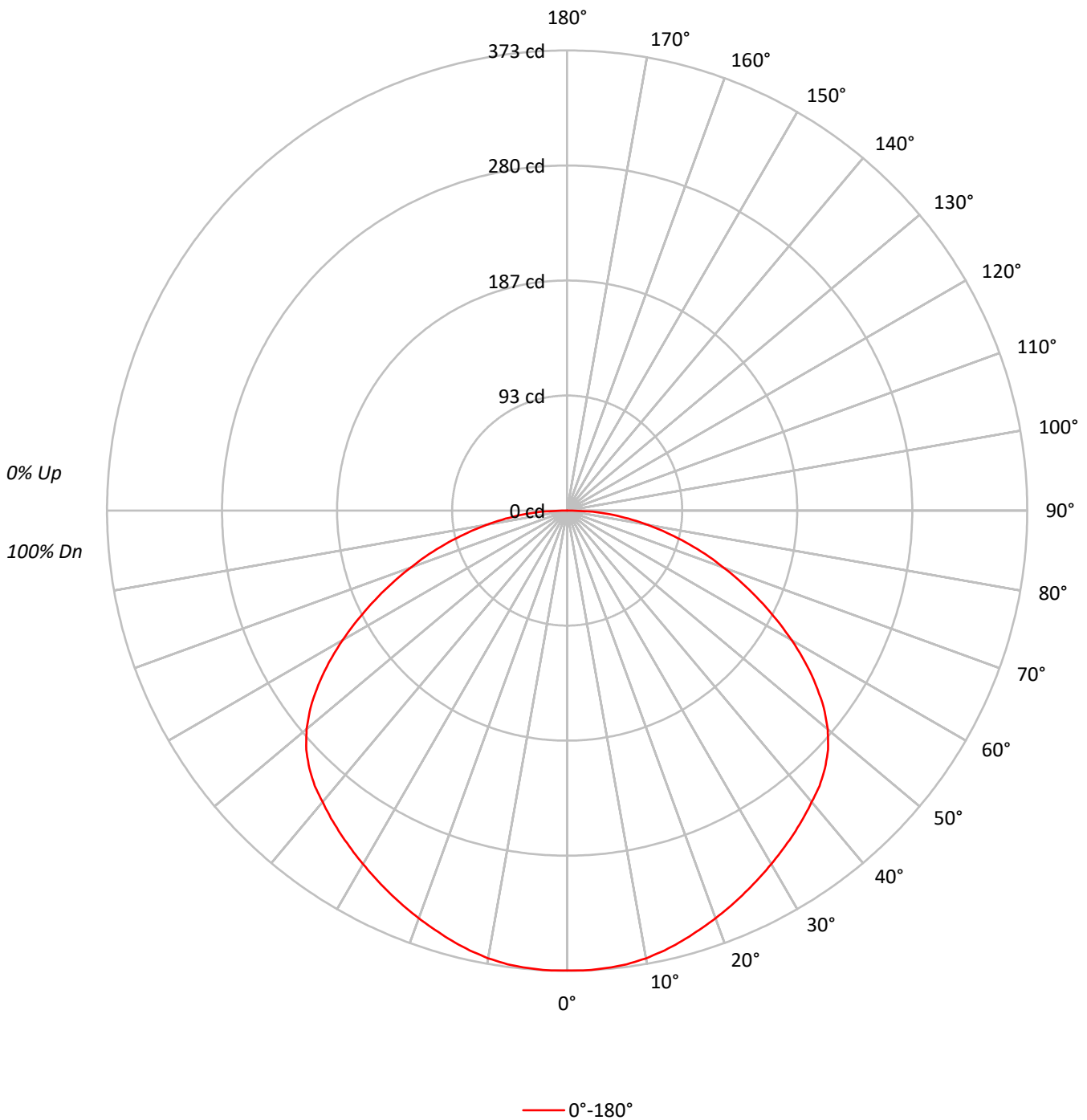
Lumens per Lamp: N/A
Luminaire Lumens: 1256.5 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.5
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	108	103	98	94	105	100	96	92	96	92	89		92	89	86		88	86	84	82
2	97	89	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	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	38	33		45	38	33		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	23		34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6080
5°	6094
10°	6103
15°	6096
20°	6104
25°	6146
30°	6232
35°	6372
40°	6566
45°	6816
50°	6996
55°	6998
60°	6857
65°	6638
70°	6433
75°	6264
80°	6209
85°	6475

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 7778 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	2.8
10°-20°	102.0	8.1
20°-30°	157.8	12.6
30°-40°	200.7	16.0
40°-50°	227.6	18.1
50°-60°	219.3	17.5
60°-70°	170.6	13.6
70°-80°	105.4	8.4
80°-90°	37.7	3.0
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°	295.2	23.5
0°-40°	495.8	39.5
0°-60°	942.7	75.0
0°-90°	1256.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1256.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	373	
5°	372	35
15°	361	102
25°	342	158
35°	320	201
45°	296	228
55°	246	219
65°	172	171
75°	99	105
85°	35	38
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	372.8
2.5°	373.0
5°	372.2
7.5°	370.9
10°	368.5
12.5°	365.1
15°	361.0
17.5°	356.3
20°	351.7
22.5°	346.8
25°	341.5
27.5°	336.3
30°	330.9
32.5°	325.5
35°	320.0
37.5°	314.4
40°	308.4
42.5°	302.8
45°	295.5
47.5°	286.9
50°	275.7
52.5°	262.2
55°	246.1
57.5°	228.9
60°	210.2
62.5°	191.3
65°	172.0
67.5°	153.5
70°	134.9
72.5°	117.3
75°	99.4
77.5°	82.5
80°	66.1
82.5°	50.2
85°	34.6
87.5°	20.8
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	19.15	20.86	19.52	21.18	21.49	19.15	20.86	19.52	21.18	21.49
	3H	21.04	22.60	21.42	22.92	23.28	21.04	22.60	21.42	22.92	23.28
	4H	21.81	23.28	22.20	23.62	24.00	21.81	23.28	22.20	23.62	24.00
	6H	22.44	23.81	22.85	24.17	24.56	22.44	23.81	22.85	24.17	24.56
	8H	22.69	24.00	23.12	24.39	24.78	22.69	24.00	23.12	24.39	24.78
	12H	22.90	24.15	23.32	24.53	24.96	22.90	24.15	23.32	24.53	24.96
4H	2H	19.81	21.28	20.21	21.62	22.00	19.81	21.28	20.21	21.62	22.00
	3H	21.94	23.18	22.34	23.57	23.97	21.94	23.18	22.34	23.57	23.97
	4H	22.85	23.97	23.28	24.39	24.82	22.85	23.97	23.28	24.39	24.82
	6H	23.64	24.63	24.09	25.07	25.52	23.64	24.63	24.09	25.07	25.52
	8H	23.95	24.88	24.41	25.32	25.78	23.95	24.88	24.41	25.32	25.78
	12H	24.22	25.06	24.70	25.53	26.00	24.22	25.06	24.70	25.53	26.00
8H	4H	23.22	24.15	23.68	24.59	25.05	23.22	24.15	23.68	24.59	25.05
	6H	24.17	24.95	24.66	25.43	25.90	24.17	24.95	24.66	25.43	25.90
	8H	24.58	25.28	25.09	25.78	26.27	24.58	25.28	25.09	25.78	26.27
	12H	24.96	25.58	25.47	26.07	26.63	24.96	25.58	25.47	26.07	26.63
12H	4H	23.28	24.12	23.76	24.59	25.06	23.28	24.12	23.76	24.59	25.06
	6H	24.26	24.96	24.77	25.47	25.95	24.26	24.96	24.77	25.47	25.95
	8H	24.75	25.37	25.25	25.86	26.42	24.75	25.37	25.25	25.86	26.42