

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: P865539

Luminaire Tested: PRLX-2001-S-940-05L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865539
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: Prenalux
Catalog Number: PRLX-2001-S-940-05L-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 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

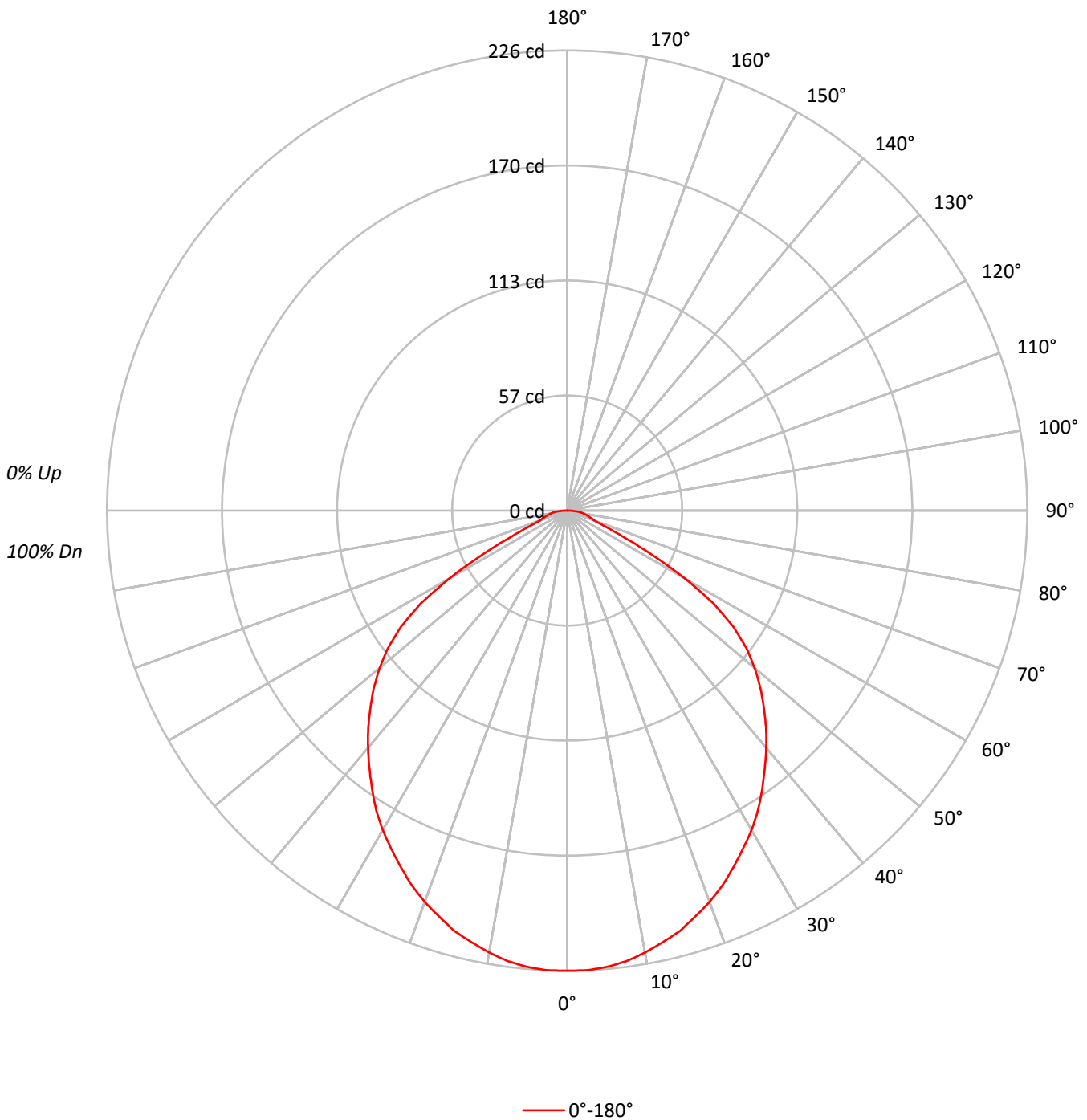
Lumens per Lamp: N/A
Luminaire Lumens: 517.2 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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°	3686
5°	3684
10°	3650
15°	3610
20°	3549
25°	3477
30°	3411
35°	3325
40°	3238
45°	3151
50°	3050
55°	2835
60°	2182
65°	1154
70°	668
75°	681
80°	751
85°	880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3151 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	4.1
10°-20°	60.2	11.6
20°-30°	89.1	17.2
30°-40°	104.5	20.2
40°-50°	105.4	20.4
50°-60°	87.0	16.8
60°-70°	33.5	6.5
70°-80°	11.5	2.2
80°-90°	4.8	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°	170.6	33.0
0°-40°	275.1	53.2
0°-60°	467.4	90.4
0°-90°	517.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	517.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	226	
5°	225	21
15°	214	60
25°	193	89
35°	167	104
45°	137	105
55°	100	87
65°	30	33
75°	11	11
85°	5	5
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	226.0
2.5°	226.0
5°	225.0
7.5°	223.2
10°	220.4
12.5°	217.1
15°	213.8
17.5°	209.1
20°	204.5
22.5°	199.3
25°	193.2
27.5°	187.2
30°	181.1
32.5°	174.5
35°	167.0
37.5°	159.5
40°	152.1
42.5°	144.6
45°	136.6
47.5°	128.7
50°	120.2
52.5°	110.9
55°	99.7
57.5°	85.6
60°	66.9
62.5°	46.8
65°	29.9
67.5°	19.2
70°	14.0
72.5°	12.2
75°	10.8
77.5°	9.4
80°	8.0
82.5°	6.6
85°	4.7
87.5°	2.3
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	15.58	17.10	15.95	17.41	17.72	15.58	17.10	15.95	17.41	17.72
	3H	15.72	17.07	16.10	17.40	17.76	15.72	17.07	16.10	17.40	17.76
	4H	15.79	17.04	16.19	17.39	17.77	15.79	17.04	16.19	17.39	17.77
	6H	15.87	17.03	16.28	17.40	17.79	15.87	17.03	16.28	17.40	17.79
	8H	15.92	17.02	16.34	17.41	17.81	15.92	17.02	16.34	17.41	17.81
	12H	15.96	17.01	16.39	17.39	17.82	15.96	17.01	16.39	17.39	17.82
4H	2H	15.62	16.88	16.02	17.23	17.61	15.62	16.88	16.02	17.23	17.61
	3H	15.84	16.87	16.25	17.27	17.67	15.84	16.87	16.25	17.27	17.67
	4H	15.96	16.88	16.39	17.29	17.73	15.96	16.88	16.39	17.29	17.73
	6H	16.13	16.93	16.59	17.37	17.83	16.13	16.93	16.59	17.37	17.83
	8H	16.21	16.96	16.68	17.40	17.87	16.21	16.96	16.68	17.40	17.87
	12H	16.30	16.97	16.79	17.45	17.92	16.30	16.97	16.79	17.45	17.92
8H	4H	15.95	16.70	16.42	17.14	17.61	15.95	16.70	16.42	17.14	17.61
	6H	16.19	16.81	16.69	17.30	17.78	16.19	16.81	16.69	17.30	17.78
	8H	16.33	16.89	16.85	17.40	17.89	16.33	16.89	16.85	17.40	17.89
	12H	16.50	16.99	17.01	17.49	18.05	16.50	16.99	17.01	17.49	18.05
12H	4H	15.94	16.61	16.42	17.09	17.56	15.94	16.61	16.42	17.09	17.56
	6H	16.19	16.75	16.70	17.26	17.75	16.19	16.75	16.70	17.26	17.75
	8H	16.38	16.88	16.89	17.37	17.94	16.38	16.88	16.89	17.37	17.94