

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: P865552

Luminaire Tested: PRLX-2001-S-940-15L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-940-15L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

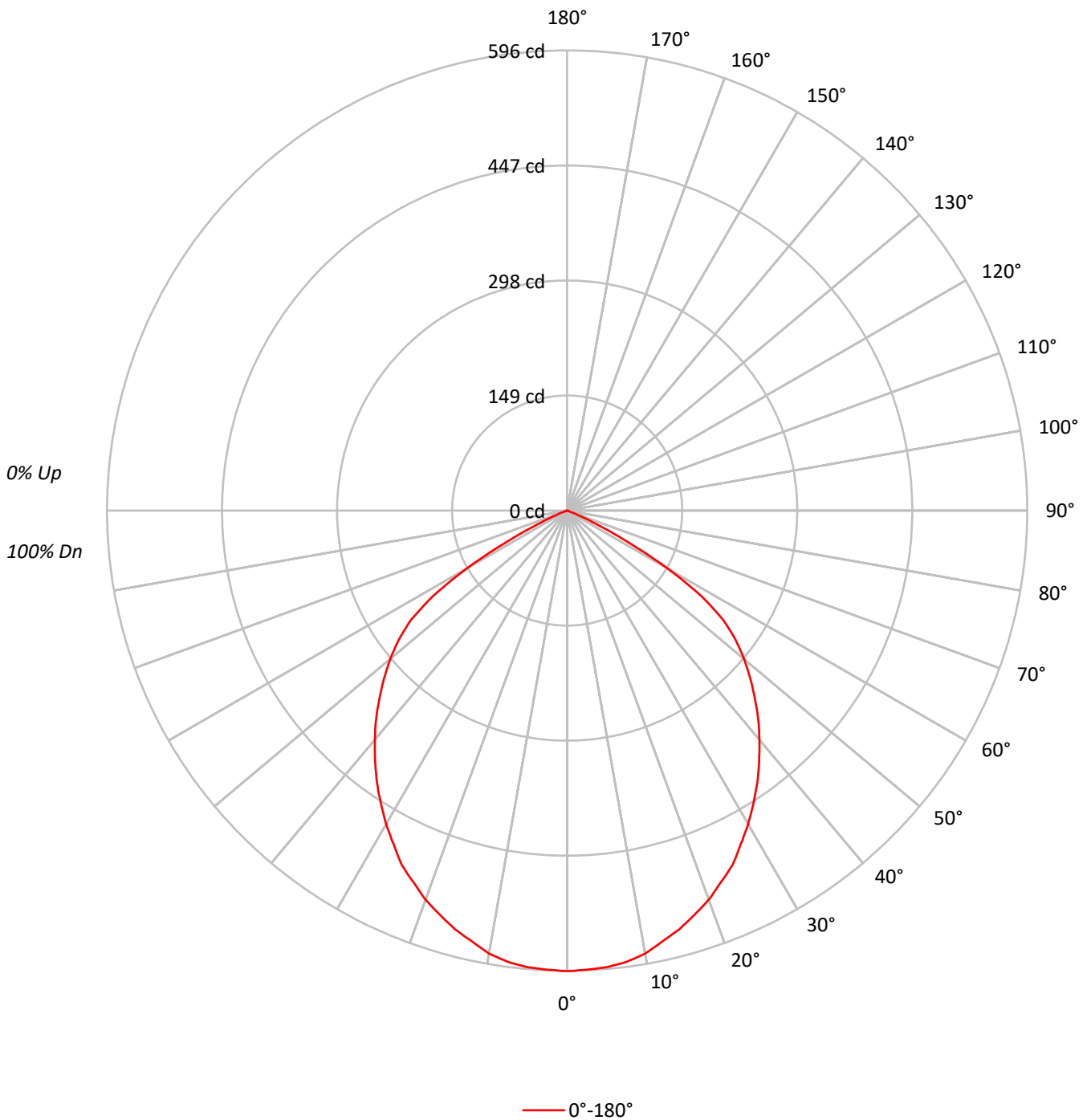
Lumens per Lamp: N/A
Luminaire Lumens: 1251.4 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.29
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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

TEST NUMBER: P865552

CATALOG NUMBER: PRLX-2001-S-940-15L-L-U-S-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P865552

CATALOG NUMBER: PRLX-2001-S-940-15L-L-U-S-X-X-BLAK-X

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	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60
5	82	70	62	56	80	69	62	56	67	61	56	65	60	55	64	59	54	53
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	49	47
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9729
5°	9720
10°	9647
15°	9480
20°	9307
25°	9119
30°	8829
35°	8552
40°	8248
45°	7932
50°	7587
55°	7024
60°	4945
65°	1625
70°	134
75°	88
80°	131
85°	262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7932 cd/sqm

TEST NUMBER: P865552

CATALOG NUMBER: PRLX-2001-S-940-15L-L-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	4.5
10°-20°	158.1	12.6
20°-30°	232.5	18.6
30°-40°	268.4	21.4
40°-50°	265.2	21.2
50°-60°	212.7	17.0
60°-70°	55.1	4.4
70°-80°	1.7	0.1
80°-90°	1.3	0.1
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°	446.9	35.7
0°-40°	715.3	57.2
0°-60°	1193.3	95.4
0°-90°	1251.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1251.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	596	
5°	594	56
15°	561	158
25°	507	232
35°	430	268
45°	344	265
55°	247	213
65°	42	55
75°	1	2
85°	1	1
90°	0	

TEST NUMBER: P865552

CATALOG NUMBER: PRLX-2001-S-940-15L-L-U-S-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	596.5
2.5°	595.1
5°	593.7
7.5°	589.5
10°	582.5
12.5°	571.3
15°	561.4
17.5°	548.8
20°	536.2
22.5°	520.7
25°	506.7
27.5°	487.1
30°	468.8
32.5°	449.2
35°	429.5
37.5°	408.5
40°	387.4
42.5°	366.3
45°	343.9
47.5°	321.4
50°	299.0
52.5°	275.1
55°	247.0
57.5°	206.3
60°	151.6
62.5°	91.2
65°	42.1
67.5°	15.4
70°	2.8
72.5°	1.4
75°	1.4
77.5°	1.4
80°	1.4
82.5°	1.4
85°	1.4
87.5°	1.4
90°	0.0

TEST NUMBER: P865552
 CATALOG NUMBER: PRLX-2001-S-940-15L-L-U-S-X-X-BLAK-X

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	18.68	20.13	19.05	20.44	20.76	18.68	20.13	19.05	20.44	20.76
	3H	18.58	19.86	18.96	20.19	20.55	18.58	19.86	18.96	20.19	20.55
	4H	18.52	19.70	18.92	20.05	20.43	18.52	19.70	18.92	20.05	20.43
	6H	18.45	19.54	18.86	19.91	20.30	18.45	19.54	18.86	19.91	20.30
	8H	18.41	19.44	18.84	19.83	20.24	18.41	19.44	18.84	19.83	20.24
	12H	18.37	19.36	18.80	19.74	20.17	18.37	19.36	18.80	19.74	20.17
4H	2H	18.59	19.77	18.99	20.12	20.50	18.59	19.77	18.99	20.12	20.50
	3H	18.49	19.45	18.90	19.85	20.25	18.49	19.45	18.90	19.85	20.25
	4H	18.41	19.26	18.84	19.68	20.12	18.41	19.26	18.84	19.68	20.12
	6H	18.34	19.07	18.80	19.52	19.98	18.34	19.07	18.80	19.52	19.98
	8H	18.29	18.97	18.76	19.42	19.89	18.29	18.97	18.76	19.42	19.89
	12H	18.25	18.86	18.73	19.34	19.81	18.25	18.86	18.73	19.34	19.81
8H	4H	18.29	18.97	18.76	19.42	19.89	18.29	18.97	18.76	19.42	19.89
	6H	18.19	18.76	18.69	19.25	19.73	18.19	18.76	18.69	19.25	19.73
	8H	18.13	18.64	18.65	19.15	19.64	18.13	18.64	18.65	19.15	19.64
	12H	18.09	18.54	18.60	19.04	19.61	18.09	18.54	18.60	19.04	19.61
12H	4H	18.25	18.85	18.73	19.33	19.81	18.25	18.85	18.73	19.33	19.81
	6H	18.13	18.64	18.65	19.15	19.64	18.13	18.64	18.65	19.15	19.64
	8H	18.09	18.54	18.60	19.04	19.60	18.09	18.54	18.60	19.04	19.60