

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: P866105

Luminaire Tested: PRLX-2001-M-940-25L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-25L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

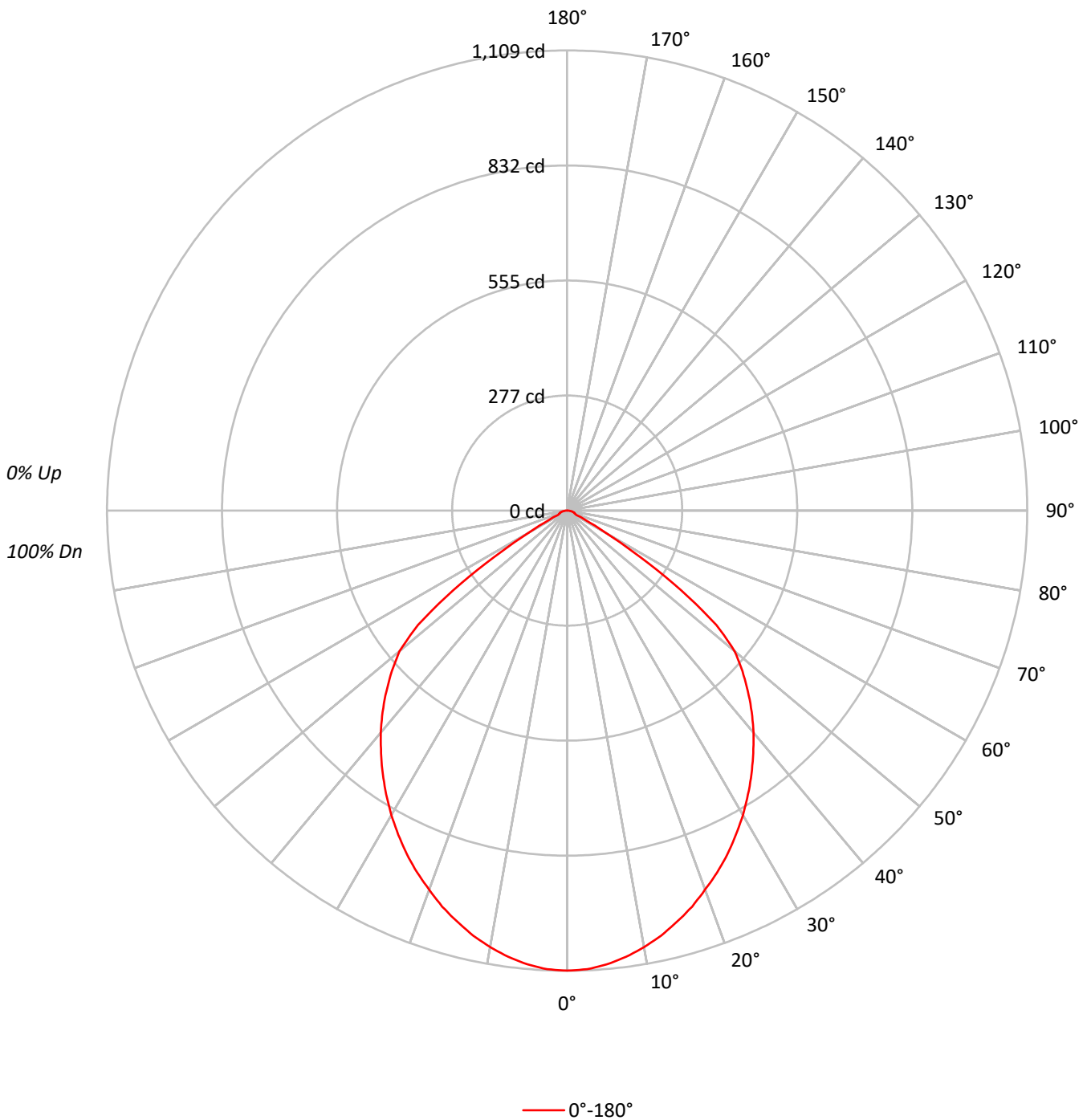
Lumens per Lamp: N/A
Luminaire Lumens: 2126.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866105

CATALOG NUMBER: PRLX-2001-M-940-25L-L-U-S-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P866105

CATALOG NUMBER: PRLX-2001-M-940-25L-L-U-S-X-X-BRSS-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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		71	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58		67	61	57		65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51		61	56	51		60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46		56	50	46		55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42		52	46	42		51	45	41	40
9	63	51	43	38	62	50	43	38	49	42	38		48	42	38		47	42	38	36
10	59	47	40	35	58	46	39	35	45	39	35		45	39	35		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9408
5°	9352
10°	9206
15°	9008
20°	8780
25°	8558
30°	8302
35°	8026
40°	7739
45°	7394
50°	6957
55°	4971
60°	1852
65°	490
70°	481
75°	518
80°	562
85°	555

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7394 cd/sqm

TEST NUMBER: P866105

CATALOG NUMBER: PRLX-2001-M-940-25L-L-U-S-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	4.9
10°-20°	288.8	13.6
20°-30°	420.5	19.8
30°-40°	484.3	22.8
40°-50°	474.5	22.3
50°-60°	291.4	13.7
60°-70°	39.6	1.9
70°-80°	16.6	0.8
80°-90°	6.2	0.3
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°	813.2	38.3
0°-40°	1297.6	61.0
0°-60°	2063.5	97.1
0°-90°	2126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2126.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1109	
5°	1098	104
15°	1025	289
25°	914	421
35°	775	484
45°	616	475
55°	336	291
65°	24	40
75°	16	17
85°	6	6
90°	0	

TEST NUMBER: P866105

CATALOG NUMBER: PRLX-2001-M-940-25L-L-U-S-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	1108.6
2.5°	1106.4
5°	1097.8
7.5°	1084.9
10°	1068.4
12.5°	1049.0
15°	1025.3
17.5°	1000.9
20°	972.2
22.5°	944.2
25°	914.0
27.5°	881.0
30°	847.2
32.5°	811.3
35°	774.7
37.5°	736.7
40°	698.6
42.5°	658.4
45°	616.1
47.5°	573.0
50°	527.0
52.5°	453.1
55°	336.0
57.5°	208.9
60°	109.1
62.5°	53.1
65°	24.4
67.5°	20.1
70°	19.4
72.5°	18.0
75°	15.8
77.5°	13.6
80°	11.5
82.5°	8.6
85°	5.7
87.5°	2.9
90°	0.0



TEST NUMBER: P866105
 CATALOG NUMBER: PRLX-2001-M-940-25L-L-U-S-X-X-BRSS-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	14.61	16.01	14.97	16.32	16.63	14.61	16.01	14.97	16.32	16.63
	3H	14.55	15.78	14.93	16.11	16.47	14.55	15.78	14.93	16.11	16.47
	4H	14.53	15.67	14.93	16.02	16.40	14.53	15.67	14.93	16.02	16.40
	6H	14.52	15.56	14.93	15.93	16.33	14.52	15.56	14.93	15.93	16.33
	8H	14.51	15.50	14.93	15.89	16.29	14.51	15.50	14.93	15.89	16.29
	12H	14.49	15.44	14.92	15.82	16.25	14.49	15.44	14.92	15.82	16.25
4H	2H	14.45	15.59	14.85	15.94	16.32	14.45	15.59	14.85	15.94	16.32
	3H	14.42	15.34	14.83	15.74	16.15	14.42	15.34	14.83	15.74	16.15
	4H	14.42	15.24	14.85	15.66	16.10	14.42	15.24	14.85	15.66	16.10
	6H	14.44	15.15	14.91	15.59	16.06	14.44	15.15	14.91	15.59	16.06
	8H	14.44	15.10	14.91	15.54	16.02	14.44	15.10	14.91	15.54	16.02
	12H	14.44	15.02	14.92	15.50	15.98	14.44	15.02	14.92	15.50	15.98
8H	4H	14.33	14.99	14.80	15.44	15.91	14.33	14.99	14.80	15.44	15.91
	6H	14.37	14.92	14.87	15.41	15.89	14.37	14.92	14.87	15.41	15.89
	8H	14.38	14.88	14.90	15.39	15.88	14.38	14.88	14.90	15.39	15.88
	12H	14.40	14.85	14.92	15.34	15.91	14.40	14.85	14.92	15.34	15.91
12H	4H	14.30	14.88	14.78	15.36	15.84	14.30	14.88	14.78	15.36	15.84
	6H	14.33	14.82	14.85	15.33	15.83	14.33	14.82	14.85	15.33	15.83
	8H	14.37	14.81	14.88	15.31	15.87	14.37	14.81	14.88	15.31	15.87