

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: P866117

Luminaire Tested: PRLX-2001-M-940-45L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-45L-G-U-S-X-X-BRSS-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

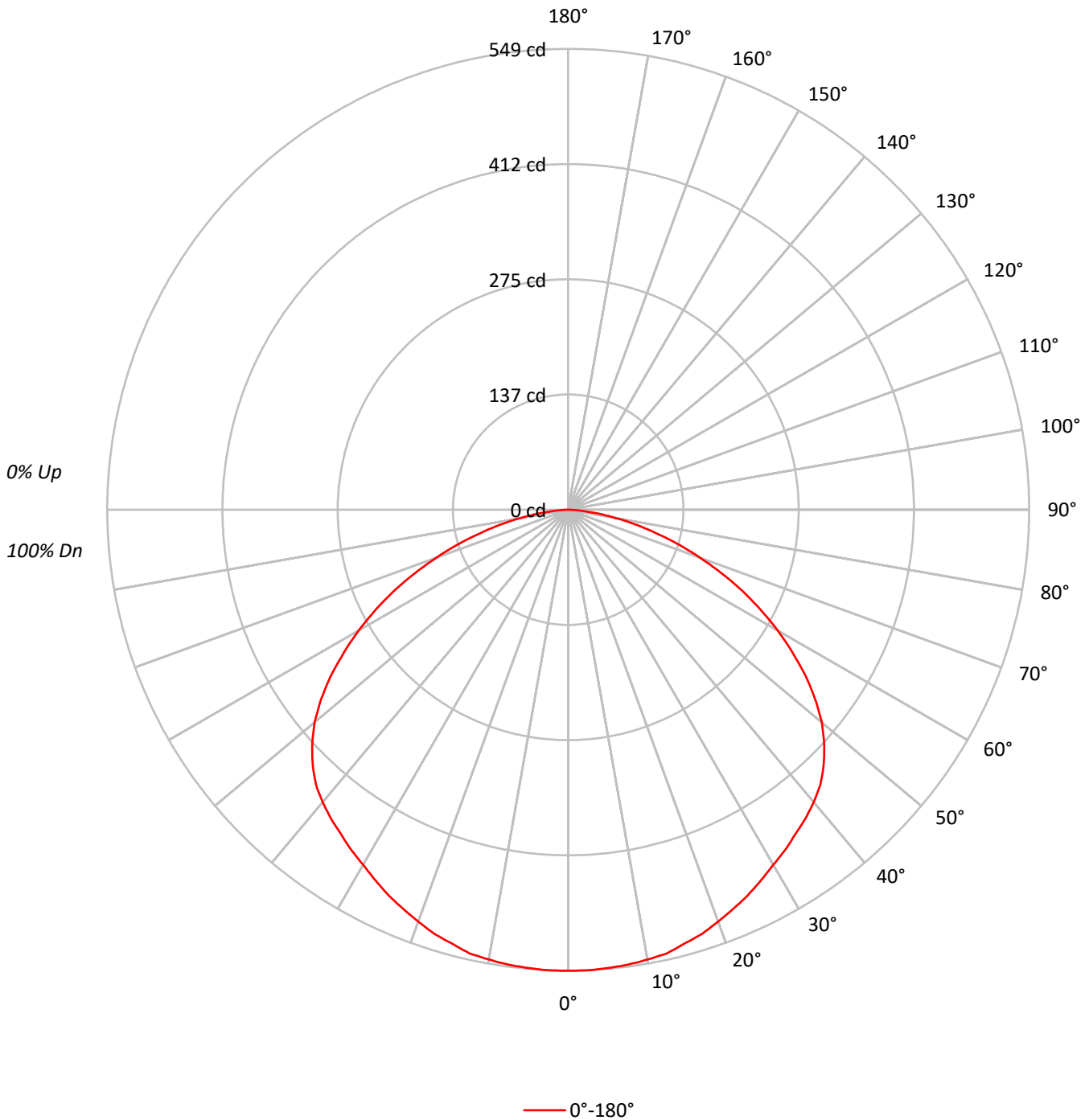
Lumens per Lamp: N/A
Luminaire Lumens: 1737.9 lumens
Efficiency: N/A
Efficacy: 44.8 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866117

CATALOG NUMBER: PRLX-2001-M-940-45L-G-U-S-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P866117

CATALOG NUMBER: PRLX-2001-M-940-45L-G-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	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4661
5°	4668
10°	4688
15°	4701
20°	4715
25°	4743
30°	4787
35°	4887
40°	5039
45°	5165
50°	5204
55°	5106
60°	4891
65°	4594
70°	4136
75°	3561
80°	2844
85°	1762

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 5204 cd/sqm

TEST NUMBER: P866117

CATALOG NUMBER: PRLX-2001-M-940-45L-G-U-S-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	3.0
10°-20°	151.3	8.7
20°-30°	233.7	13.5
30°-40°	296.1	17.0
40°-50°	331.0	19.0
50°-60°	307.2	17.7
60°-70°	225.7	13.0
70°-80°	116.5	6.7
80°-90°	24.1	1.4
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°	437.2	25.2
0°-40°	733.4	42.2
0°-60°	1371.6	78.9
0°-90°	1737.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1737.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	549	
5°	548	52
15°	535	151
25°	507	234
35°	472	296
45°	430	331
55°	345	307
65°	229	226
75°	109	116
85°	18	24
90°	0	

TEST NUMBER: P866117

CATALOG NUMBER: PRLX-2001-M-940-45L-G-U-S-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	549.3
2.5°	549.3
5°	548.0
7.5°	546.7
10°	544.1
12.5°	541.5
15°	535.1
17.5°	529.9
20°	522.1
22.5°	514.4
25°	506.6
27.5°	497.6
30°	488.5
32.5°	480.8
35°	471.7
37.5°	464.0
40°	454.9
42.5°	444.6
45°	430.4
47.5°	413.6
50°	394.2
52.5°	370.9
55°	345.1
57.5°	316.6
60°	288.2
62.5°	258.5
65°	228.8
67.5°	197.7
70°	166.7
72.5°	138.3
75°	108.6
77.5°	82.7
80°	58.2
82.5°	36.2
85°	18.1
87.5°	5.2
90°	0.0



TEST NUMBER: P866117
 CATALOG NUMBER: PRLX-2001-M-940-45L-G-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	18.06	19.73	18.42	20.04	20.36	18.06	19.73	18.42	20.04	20.36
	3H	19.70	21.21	20.08	21.53	21.89	19.70	21.21	20.08	21.53	21.89
	4H	20.25	21.67	20.64	22.01	22.39	20.25	21.67	20.64	22.01	22.39
	6H	20.59	21.91	21.00	22.27	22.66	20.59	21.91	21.00	22.27	22.66
	8H	20.67	21.93	21.09	22.32	22.71	20.67	21.93	21.09	22.32	22.71
	12H	20.71	21.91	21.13	22.29	22.72	20.71	21.91	21.13	22.29	22.72
4H	2H	18.67	20.09	19.07	20.44	20.81	18.67	20.09	19.07	20.44	20.81
	3H	20.51	21.70	20.92	22.09	22.49	20.51	21.70	20.92	22.09	22.49
	4H	21.16	22.24	21.59	22.65	23.08	21.16	22.24	21.59	22.65	23.08
	6H	21.61	22.55	22.06	22.99	23.44	21.61	22.55	22.06	22.99	23.44
	8H	21.72	22.60	22.18	23.04	23.50	21.72	22.60	22.18	23.04	23.50
	12H	21.78	22.57	22.26	23.04	23.51	21.78	22.57	22.26	23.04	23.51
8H	4H	21.41	22.29	21.87	22.73	23.20	21.41	22.29	21.87	22.73	23.20
	6H	21.95	22.67	22.44	23.16	23.64	21.95	22.67	22.44	23.16	23.64
	8H	22.10	22.75	22.61	23.26	23.74	22.10	22.75	22.61	23.26	23.74
	12H	22.20	22.77	22.70	23.26	23.82	22.20	22.77	22.70	23.26	23.82
12H	4H	21.43	22.22	21.91	22.69	23.16	21.43	22.22	21.91	22.69	23.16
	6H	21.97	22.62	22.48	23.13	23.62	21.97	22.62	22.48	23.13	23.62
	8H	22.17	22.74	22.67	23.23	23.79	22.17	22.74	22.67	23.23	23.79