

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: P866373

Luminaire Tested: PRLX-2002-M-940-45L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-940-45L-G-U-S-X-X-BRSS-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

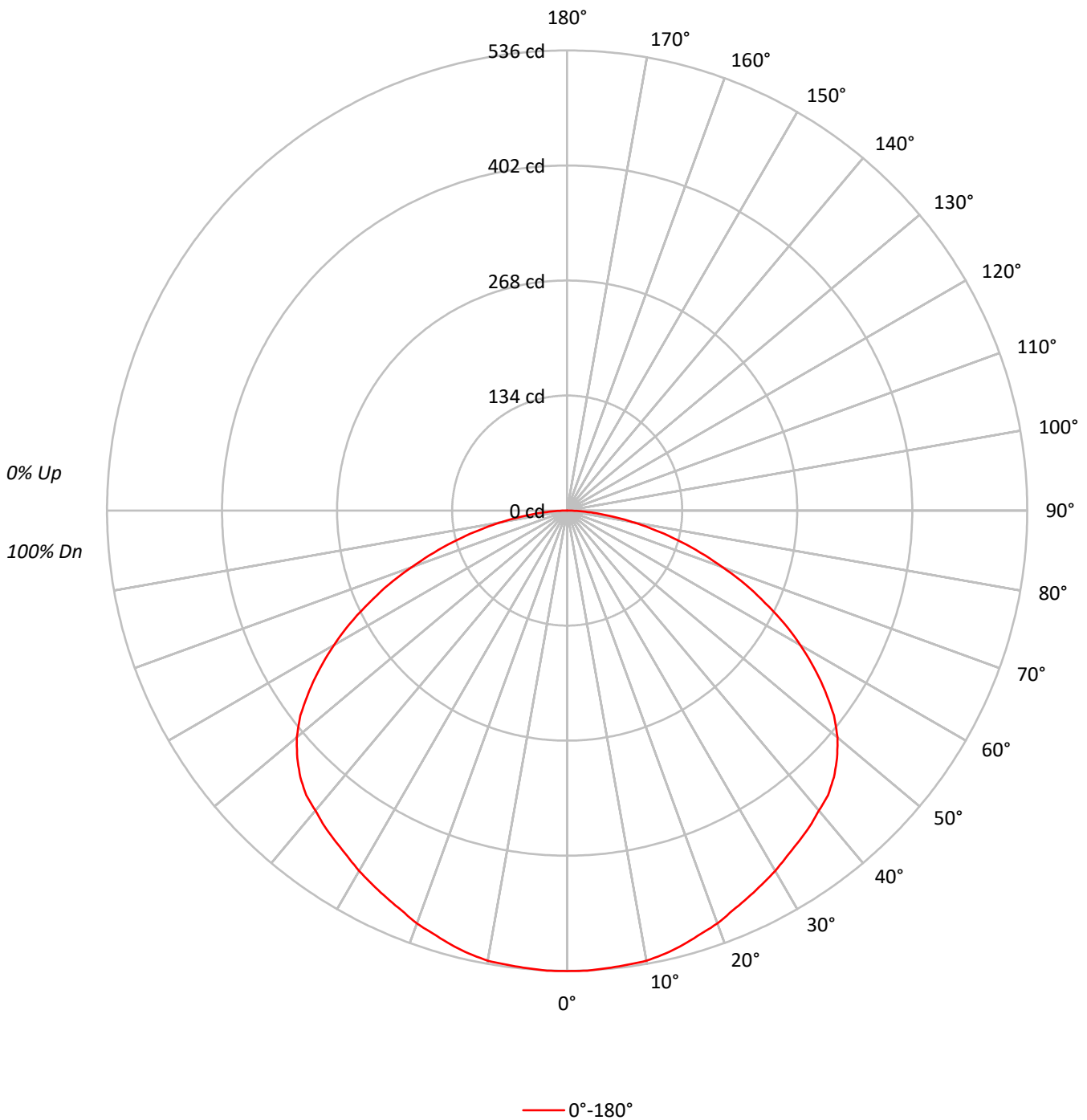
Lumens per Lamp: N/A
Luminaire Lumens: 1819.9 lumens
Efficiency: N/A
Efficacy: 46.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): 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: P866373

CATALOG NUMBER: PRLX-2002-M-940-45L-G-U-S-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P866373

CATALOG NUMBER: PRLX-2002-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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	44	72	59	51	44	57	50	44		55	48	43		53	47	43	40
6	68	54	45	38	66	53	45	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	59	45	36	30	57	44	35	30	42	35	29		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	26	39	31	26		38	31	26		37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	24		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4267
5°	4273
10°	4302
15°	4311
20°	4333
25°	4368
30°	4453
35°	4569
40°	4738
45°	4944
50°	5087
55°	5090
60°	4998
65°	4793
70°	4480
75°	4091
80°	3551
85°	2830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 5118 cd/sqm

TEST NUMBER: P866373

CATALOG NUMBER: PRLX-2002-M-940-45L-G-U-S-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	2.8
10°-20°	147.9	8.1
20°-30°	230.0	12.6
30°-40°	295.2	16.2
40°-50°	338.2	18.6
50°-60°	327.1	18.0
60°-70°	252.0	13.8
70°-80°	141.2	7.8
80°-90°	37.3	2.0
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°	428.9	23.6
0°-40°	724.1	39.8
0°-60°	1389.4	76.3
0°-90°	1819.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1819.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	536	
5°	535	51
15°	523	148
25°	498	230
35°	470	295
45°	439	338
55°	367	327
65°	255	252
75°	133	141
85°	31	37
90°	0	

TEST NUMBER: P866373

CATALOG NUMBER: PRLX-2002-M-940-45L-G-U-S-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	536.4
2.5°	536.4
5°	535.1
7.5°	533.8
10°	532.5
12.5°	528.6
15°	523.4
17.5°	517.0
20°	511.8
22.5°	504.0
25°	497.6
27.5°	491.1
30°	484.7
32.5°	476.9
35°	470.4
37.5°	464.0
40°	456.2
42.5°	449.8
45°	439.4
47.5°	426.5
50°	411.0
52.5°	391.6
55°	367.0
57.5°	341.2
60°	314.1
62.5°	285.6
65°	254.6
67.5°	224.9
70°	192.6
72.5°	162.8
75°	133.1
77.5°	104.7
80°	77.5
82.5°	53.0
85°	31.0
87.5°	14.2
90°	0.0



TEST NUMBER: P866373

CATALOG NUMBER: PRLX-2002-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	18.16	19.86	18.52	20.17	20.49	18.16	19.86	18.52	20.17	20.49
	3H	19.97	21.51	20.34	21.84	22.19	19.97	21.51	20.34	21.84	22.19
	4H	20.62	22.07	21.02	22.42	22.80	20.62	22.07	21.02	22.42	22.80
	6H	21.08	22.43	21.49	22.80	23.19	21.08	22.43	21.49	22.80	23.19
	8H	21.22	22.51	21.64	22.90	23.30	21.22	22.51	21.64	22.90	23.30
	12H	21.31	22.55	21.74	22.93	23.36	21.31	22.55	21.74	22.93	23.36
4H	2H	18.81	20.26	19.21	20.61	20.99	18.81	20.26	19.21	20.61	20.99
	3H	20.83	22.05	21.24	22.45	22.85	20.83	22.05	21.24	22.45	22.85
	4H	21.60	22.72	22.03	23.13	23.56	21.60	22.72	22.03	23.13	23.56
	6H	22.19	23.16	22.64	23.60	24.05	22.19	23.16	22.64	23.60	24.05
	8H	22.37	23.28	22.83	23.72	24.19	22.37	23.28	22.83	23.72	24.19
	12H	22.50	23.32	22.98	23.80	24.26	22.50	23.32	22.98	23.80	24.26
8H	4H	21.91	22.83	22.37	23.27	23.73	21.91	22.83	22.37	23.27	23.73
	6H	22.61	23.37	23.10	23.86	24.33	22.61	23.37	23.10	23.86	24.33
	8H	22.86	23.54	23.37	24.05	24.53	22.86	23.54	23.37	24.05	24.53
	12H	23.05	23.66	23.56	24.14	24.70	23.05	23.66	23.56	24.14	24.70
12H	4H	21.95	22.77	22.43	23.24	23.71	21.95	22.77	22.43	23.24	23.71
	6H	22.66	23.35	23.17	23.85	24.33	22.66	23.35	23.17	23.85	24.33
	8H	22.97	23.57	23.47	24.06	24.62	22.97	23.57	23.47	24.06	24.62