

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: P867131

Luminaire Tested: PRLX-2002-L-940-133L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-68)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-940-133L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

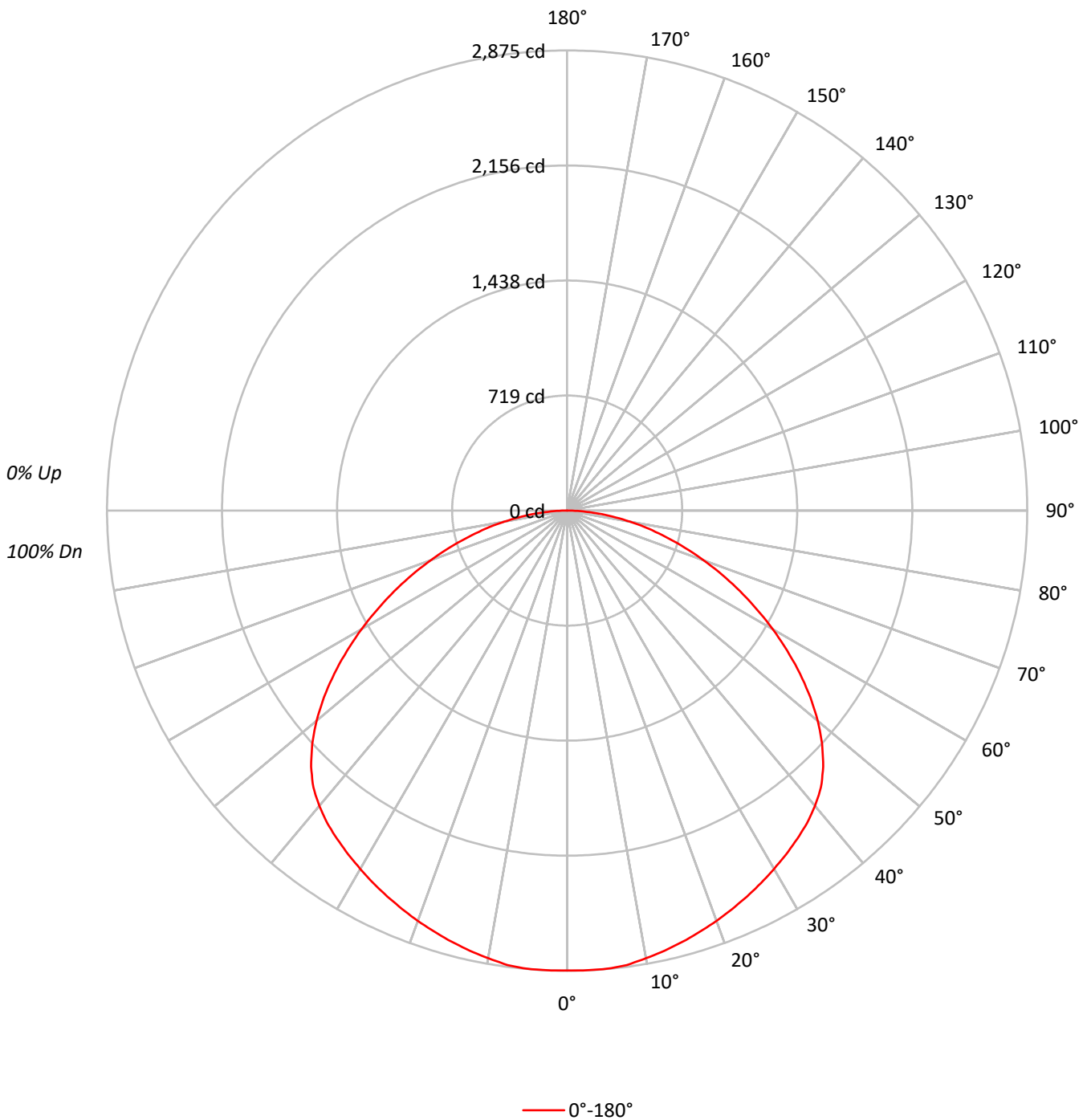
Lumens per Lamp: N/A
Luminaire Lumens: 9246.4 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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: P867131

CATALOG NUMBER: PRLX-2002-L-940-133L-G-X-X-WHHR-X

Luminous Intensity Polar Plot





TEST NUMBER: P867131

CATALOG NUMBER: PRLX-2002-L-940-133L-G-X-X-WHHR-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	106	101	97	93	97	94	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	24		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14177
5°	14231
10°	14228
15°	14245
20°	14323
25°	14478
30°	14726
35°	15090
40°	15519
45°	15788
50°	15697
55°	15279
60°	14644
65°	13897
70°	13064
75°	12189
80°	11311
85°	10071

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15788 cd/sqm



TEST NUMBER: P867131

CATALOG NUMBER: PRLX-2002-L-940-133L-G-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.2	3.0
10°-20°	788.4	8.5
20°-30°	1228.6	13.3
30°-40°	1570.0	17.0
40°-50°	1738.2	18.8
50°-60°	1584.2	17.1
60°-70°	1180.3	12.8
70°-80°	681.4	7.4
80°-90°	202.0	2.2
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°	2290.2	24.8
0°-40°	3860.2	41.7
0°-60°	7182.6	77.7
0°-90°	9246.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9246.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2874	
5°	2874	273
15°	2789	788
25°	2660	1229
35°	2505	1570
45°	2263	1738
55°	1776	1584
65°	1190	1180
75°	639	681
85°	178	202
90°	0	

TEST NUMBER: P867131

CATALOG NUMBER: PRLX-2002-L-940-133L-G-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	2873.5
2.5°	2874.7
5°	2873.5
7.5°	2863.5
10°	2839.9
12.5°	2816.2
15°	2788.9
17.5°	2759.0
20°	2727.9
22.5°	2694.3
25°	2659.5
27.5°	2623.4
30°	2584.9
32.5°	2546.3
35°	2505.3
37.5°	2461.7
40°	2409.5
42.5°	2347.3
45°	2262.7
47.5°	2160.7
50°	2045.0
52.5°	1914.4
55°	1776.3
57.5°	1629.5
60°	1484.0
62.5°	1337.2
65°	1190.4
67.5°	1048.6
70°	905.6
72.5°	772.5
75°	639.4
77.5°	520.0
80°	398.1
82.5°	283.6
85°	177.9
87.5°	82.1
90°	0.0

TEST NUMBER: P867131
 CATALOG NUMBER: PRLX-2002-L-940-133L-G-X-X-WHHR-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	21.74	23.42	22.11	23.73	24.05	21.74	23.42	22.11	23.73	24.05
	3H	23.49	25.01	23.87	25.34	25.69	23.49	25.01	23.87	25.34	25.69
	4H	24.16	25.59	24.55	25.93	26.31	24.16	25.59	24.55	25.93	26.31
	6H	24.67	26.00	25.08	26.37	26.76	24.67	26.00	25.08	26.37	26.76
	8H	24.85	26.12	25.27	26.51	26.91	24.85	26.12	25.27	26.51	26.91
	12H	24.97	26.19	25.40	26.57	27.00	24.97	26.19	25.40	26.57	27.00
4H	2H	22.36	23.79	22.76	24.14	24.51	22.36	23.79	22.76	24.14	24.51
	3H	24.34	25.54	24.74	25.94	26.33	24.34	25.54	24.74	25.94	26.33
	4H	25.13	26.22	25.56	26.64	27.07	25.13	26.22	25.56	26.64	27.07
	6H	25.79	26.74	26.24	27.18	27.64	25.79	26.74	26.24	27.18	27.64
	8H	26.01	26.91	26.47	27.35	27.81	26.01	26.91	26.47	27.35	27.81
	12H	26.19	26.99	26.67	27.47	27.94	26.19	26.99	26.67	27.47	27.94
8H	4H	25.46	26.35	25.91	26.79	27.26	25.46	26.35	25.91	26.79	27.26
	6H	26.24	26.99	26.73	27.47	27.95	26.24	26.99	26.73	27.47	27.95
	8H	26.54	27.22	27.05	27.72	28.20	26.54	27.22	27.05	27.72	28.20
	12H	26.80	27.39	27.30	27.88	28.44	26.80	27.39	27.30	27.88	28.44
12H	4H	25.50	26.30	25.98	26.78	27.24	25.50	26.30	25.98	26.78	27.24
	6H	26.30	26.98	26.81	27.48	27.97	26.30	26.98	26.81	27.48	27.97
	8H	26.67	27.27	27.18	27.75	28.31	26.67	27.27	27.18	27.75	28.31