

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: P866890

Luminaire Tested: PRLX-2001-L-940-32L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-66)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-940-32L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

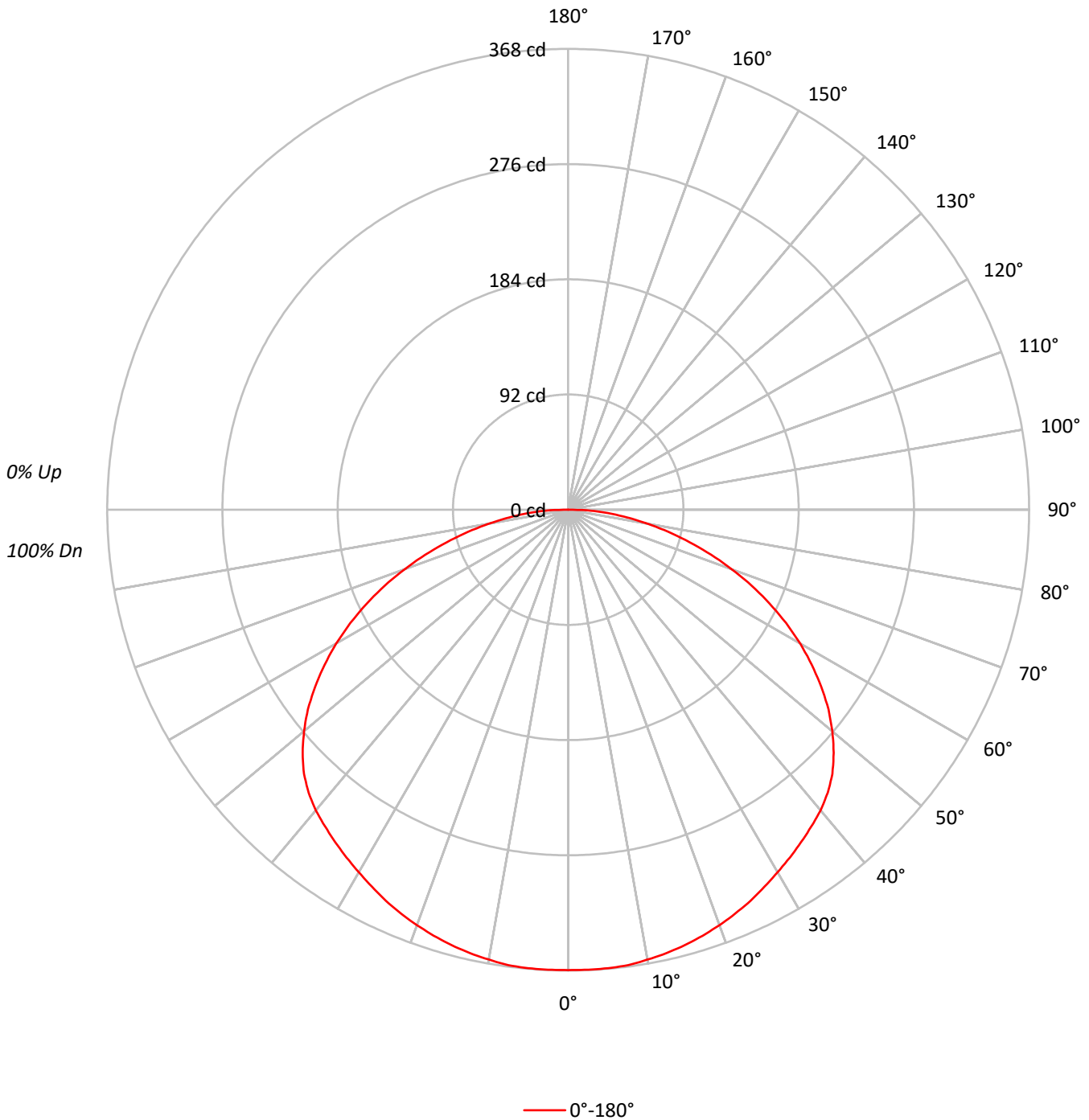
Lumens per Lamp: N/A
Luminaire Lumens: 1265.6 lumens
Efficiency: N/A
Efficacy: 48.5 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
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: P866890

CATALOG NUMBER: PRLX-2001-L-940-32L-G-X-X-GREY-X

Luminous Intensity Polar Plot





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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	98	94	105	100	96	92	96	93	89		92	89	87		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	41	37	34
7	63	49	40	33	61	48	39	33	46	38	33		45	38	32		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2010
5°	2017
10°	2025
15°	2037
20°	2054
25°	2078
30°	2110
35°	2164
40°	2237
45°	2306
50°	2341
55°	2351
60°	2338
65°	2296
70°	2217
75°	2123
80°	2018
85°	2001

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 2352 cd/sqm

TEST NUMBER: P866890

CATALOG NUMBER: PRLX-2001-L-940-32L-G-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	2.8
10°-20°	101.8	8.0
20°-30°	159.0	12.6
30°-40°	203.3	16.1
40°-50°	229.4	18.1
50°-60°	220.1	17.4
60°-70°	175.3	13.9
70°-80°	106.4	8.4
80°-90°	35.3	2.8
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°	295.8	23.4
0°-40°	499.1	39.4
0°-60°	948.6	75.0
0°-90°	1265.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1265.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	368	
5°	368	35
15°	360	102
25°	344	159
35°	324	203
45°	298	229
55°	247	220
65°	178	175
75°	100	106
85°	32	35
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	367.7
2.5°	367.7
5°	367.5
7.5°	366.9
10°	364.8
12.5°	362.7
15°	360.0
17.5°	356.7
20°	353.1
22.5°	349.0
25°	344.5
27.5°	339.4
30°	334.3
32.5°	329.3
35°	324.2
37.5°	318.8
40°	313.5
42.5°	306.6
45°	298.3
47.5°	287.5
50°	275.3
52.5°	261.9
55°	246.7
57.5°	230.6
60°	213.8
62.5°	196.0
65°	177.5
67.5°	158.7
70°	138.7
72.5°	119.6
75°	100.5
77.5°	82.0
80°	64.1
82.5°	47.4
85°	31.9
87.5°	18.2
90°	0.0

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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	15.38	17.09	15.75	17.41	17.72	15.38	17.09	15.75	17.41	17.72
	3H	17.35	18.90	17.72	19.23	19.59	17.35	18.90	17.72	19.23	19.59
	4H	18.11	19.57	18.50	19.92	20.29	18.11	19.57	18.50	19.92	20.29
	6H	18.70	20.07	19.11	20.43	20.82	18.70	20.07	19.11	20.43	20.82
	8H	18.92	20.23	19.34	20.62	21.01	18.92	20.23	19.34	20.62	21.01
	12H	19.09	20.35	19.52	20.73	21.16	19.09	20.35	19.52	20.73	21.16
4H	2H	16.08	17.55	16.47	17.89	18.27	16.08	17.55	16.47	17.89	18.27
	3H	18.26	19.50	18.67	19.89	20.29	18.26	19.50	18.67	19.89	20.29
	4H	19.15	20.28	19.58	20.69	21.13	19.15	20.28	19.58	20.69	21.13
	6H	19.89	20.88	20.34	21.32	21.77	19.89	20.88	20.34	21.32	21.77
	8H	20.17	21.10	20.63	21.54	22.00	20.17	21.10	20.63	21.54	22.00
	12H	20.40	21.24	20.88	21.71	22.18	20.40	21.24	20.88	21.71	22.18
8H	4H	19.52	20.45	19.98	20.89	21.35	19.52	20.45	19.98	20.89	21.35
	6H	20.40	21.18	20.89	21.66	22.13	20.40	21.18	20.89	21.66	22.13
	8H	20.77	21.47	21.27	21.97	22.45	20.77	21.47	21.27	21.97	22.45
	12H	21.10	21.72	21.60	22.21	22.76	21.10	21.72	21.60	22.21	22.76
12H	4H	19.57	20.41	20.05	20.88	21.35	19.57	20.41	20.05	20.88	21.35
	6H	20.48	21.18	20.99	21.69	22.17	20.48	21.18	20.99	21.69	22.17
	8H	20.92	21.54	21.42	22.03	22.58	20.92	21.54	21.42	22.03	22.58