

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: P866824

Luminaire Tested: PRLX-2001-L-935-32L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-32L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

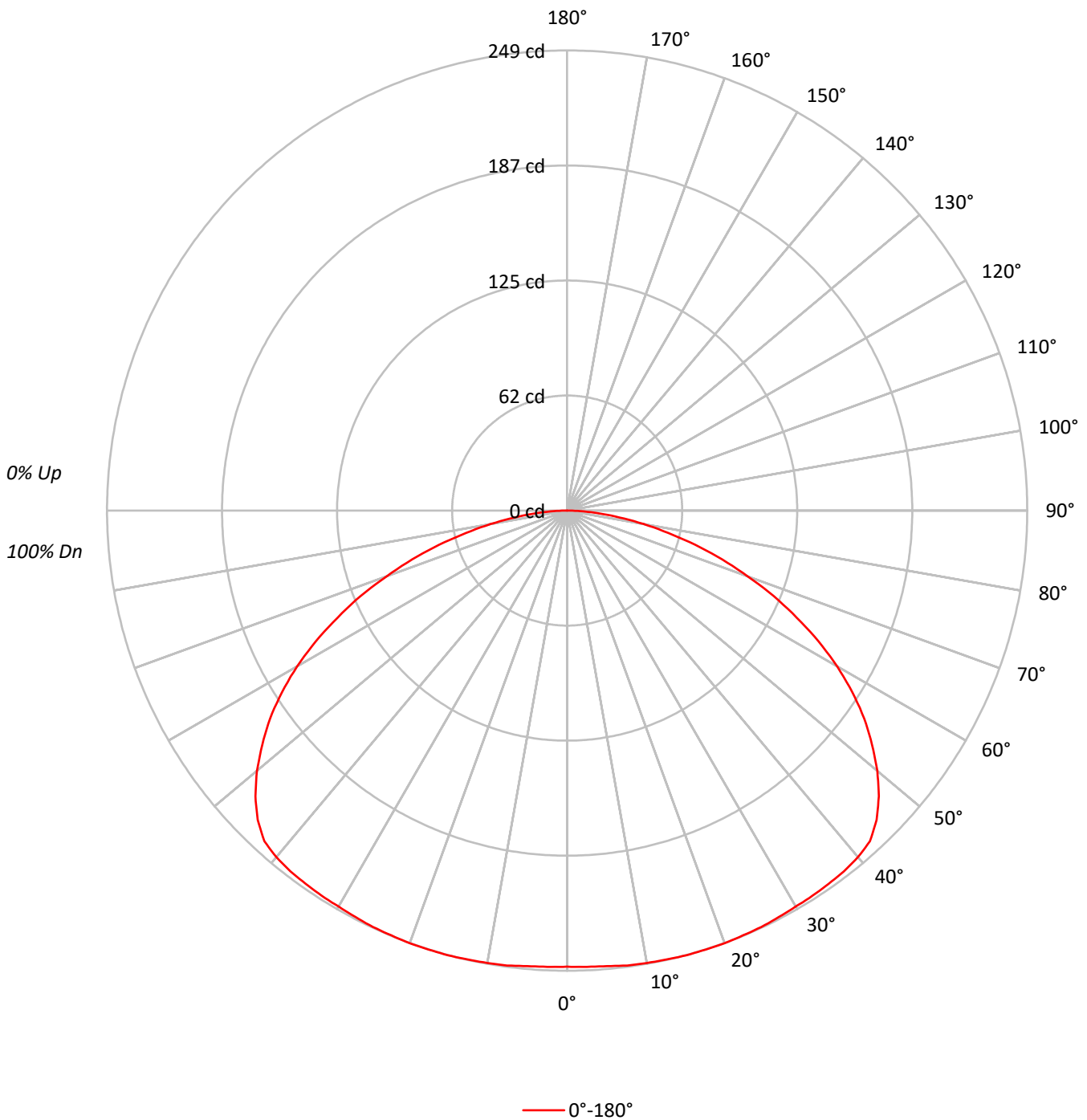
Lumens per Lamp: N/A
Luminaire Lumens: 952.2 lumens
Efficiency: N/A
Efficacy: 36.5 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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: P866824

CATALOG NUMBER: PRLX-2001-L-935-32L-G-X-X-BLAK-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	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	81	75	95	87	80	74	83	78	73		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	58	51	78	66	58	51	64	56	50		61	55	49		59	53	49	46
5	73	60	50	43	71	59	50	43	57	49	43		55	48	42		53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37		49	42	36		47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28		40	33	28		39	33	28	26
9	54	40	31	26	52	39	31	25	38	31	25		37	30	25		36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1349
5°	1358
10°	1380
15°	1410
20°	1449
25°	1500
30°	1562
35°	1646
40°	1747
45°	1831
50°	1863
55°	1871
60°	1846
65°	1773
70°	1662
75°	1514
80°	1322
85°	1041

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 1871 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	2.5
10°-20°	70.6	7.4
20°-30°	115.0	12.1
30°-40°	154.8	16.3
40°-50°	181.7	19.1
50°-60°	174.8	18.4
60°-70°	135.6	14.2
70°-80°	76.1	8.0
80°-90°	19.9	2.1
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°	209.2	22.0
0°-40°	364.0	38.2
0°-60°	720.6	75.7
0°-90°	952.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	952.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	247	
5°	247	24
15°	249	71
25°	249	115
35°	247	155
45°	237	182
55°	196	175
65°	137	136
75°	72	76
85°	17	20
90°	0	

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CATALOG NUMBER: PRLX-2001-L-935-32L-G-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	246.8
2.5°	247.1
5°	247.4
7.5°	248.3
10°	248.6
12.5°	248.8
15°	249.1
17.5°	249.1
20°	249.1
22.5°	248.8
25°	248.6
27.5°	248.0
30°	247.4
32.5°	247.1
35°	246.6
37.5°	246.0
40°	244.8
42.5°	242.6
45°	236.8
47.5°	228.8
50°	219.1
52.5°	208.0
55°	196.3
57.5°	183.1
60°	168.8
62.5°	153.4
65°	137.1
67.5°	121.1
70°	104.0
72.5°	88.0
75°	71.7
77.5°	56.0
80°	42.0
82.5°	28.6
85°	16.6
87.5°	7.1
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	14.76	16.48	15.12	16.79	17.10	14.76	16.48	15.12	16.79	17.10
	3H	16.58	18.14	16.96	18.47	18.82	16.58	18.14	16.96	18.47	18.82
	4H	17.24	18.71	17.63	19.06	19.43	17.24	18.71	17.63	19.06	19.43
	6H	17.70	19.07	18.11	19.43	19.82	17.70	19.07	18.11	19.43	19.82
	8H	17.84	19.15	18.26	19.54	19.94	17.84	19.15	18.26	19.54	19.94
	12H	17.93	19.19	18.36	19.57	19.99	17.93	19.19	18.36	19.57	19.99
4H	2H	15.41	16.89	15.81	17.23	17.61	15.41	16.89	15.81	17.23	17.61
	3H	17.45	18.69	17.86	19.09	19.49	17.45	18.69	17.86	19.09	19.49
	4H	18.23	19.36	18.66	19.77	20.20	18.23	19.36	18.66	19.77	20.20
	6H	18.82	19.80	19.27	20.24	20.69	18.82	19.80	19.27	20.24	20.69
	8H	19.00	19.93	19.46	20.37	20.83	19.00	19.93	19.46	20.37	20.83
	12H	19.13	19.96	19.61	20.44	20.90	19.13	19.96	19.61	20.44	20.90
8H	4H	18.54	19.47	19.00	19.91	20.37	18.54	19.47	19.00	19.91	20.37
	6H	19.24	20.01	19.73	20.50	20.97	19.24	20.01	19.73	20.50	20.97
	8H	19.49	20.19	20.00	20.69	21.17	19.49	20.19	20.00	20.69	21.17
	12H	19.69	20.30	20.19	20.79	21.34	19.69	20.30	20.19	20.79	21.34
12H	4H	18.58	19.41	19.06	19.88	20.35	18.58	19.41	19.06	19.88	20.35
	6H	19.29	19.99	19.80	20.49	20.97	19.29	19.99	19.80	20.49	20.97
	8H	19.60	20.21	20.11	20.70	21.26	19.60	20.21	20.11	20.70	21.26