

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: P865516

Luminaire Tested: PRLX-2001-S-935-20L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-935-20L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

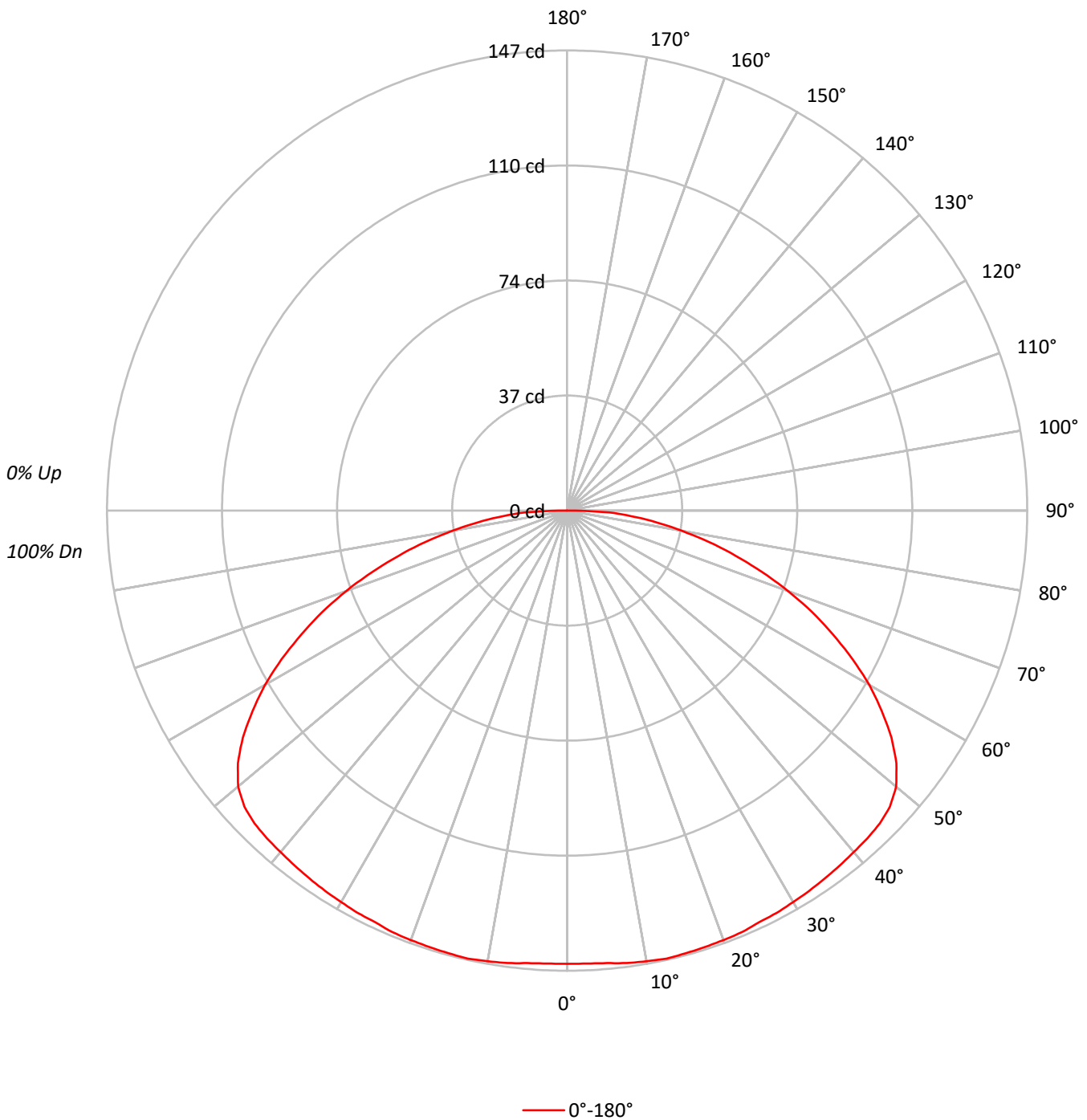
Lumens per Lamp: N/A
Luminaire Lumens: 608.0 lumens
Efficiency: N/A
Efficacy: 27.9 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.69
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P865516

CATALOG NUMBER: PRLX-2001-S-935-20L-G-U-S-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	107	102	97	92	104	99	95	91	95	91	88		91	88	85		87	85	82	80
2	96	87	79	73	93	85	78	72	81	75	70		78	73	68		75	71	67	64
3	87	75	66	59	84	73	65	58	70	63	57		67	61	56		65	60	55	53
4	79	66	56	49	76	64	55	48	62	54	47		59	52	47		57	51	46	44
5	72	58	48	41	70	57	48	41	55	46	40		53	45	40		51	44	39	37
6	66	52	42	35	64	51	42	35	49	41	35		47	40	34		45	39	34	32
7	61	46	37	30	59	46	37	30	44	36	30		43	35	30		41	35	30	27
8	57	42	33	27	55	41	33	27	40	32	27		39	32	26		37	31	26	24
9	53	38	30	24	51	38	29	24	37	29	24		35	28	23		34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21		33	26	21		32	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2362
5°	2376
10°	2421
15°	2472
20°	2534
25°	2611
30°	2720
35°	2857
40°	3032
45°	3259
50°	3481
55°	3597
60°	3637
65°	3616
70°	3581
75°	3510
80°	3485
85°	3855

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 5011 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.9	2.3
10°-20°	41.5	6.8
20°-30°	67.2	11.1
30°-40°	90.1	14.8
40°-50°	109.0	17.9
50°-60°	112.5	18.5
60°-70°	92.7	15.2
70°-80°	59.0	9.7
80°-90°	22.1	3.6
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°	122.6	20.2
0°-40°	212.7	35.0
0°-60°	434.1	71.4
0°-90°	608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	608.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	145	
5°	145	14
15°	146	41
25°	145	67
35°	144	90
45°	141	109
55°	126	113
65°	94	93
75°	56	59
85°	21	22
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	144.8
2.5°	144.8
5°	145.1
7.5°	145.8
10°	146.2
12.5°	146.6
15°	146.4
17.5°	146.2
20°	146.0
22.5°	145.8
25°	145.1
27.5°	144.9
30°	144.4
32.5°	144.0
35°	143.5
37.5°	143.0
40°	142.4
42.5°	142.0
45°	141.3
47.5°	139.9
50°	137.2
52.5°	132.6
55°	126.5
57.5°	119.2
60°	111.5
62.5°	102.8
65°	93.7
67.5°	84.7
70°	75.1
72.5°	65.3
75°	55.7
77.5°	46.5
80°	37.1
82.5°	28.8
85°	20.6
87.5°	13.4
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	17.07	18.84	17.44	19.16	19.47	17.07	18.84	17.44	19.16	19.47
	3H	19.16	20.77	19.53	21.09	21.45	19.16	20.77	19.53	21.09	21.45
	4H	19.99	21.51	20.38	21.86	22.23	19.99	21.51	20.38	21.86	22.23
	6H	20.68	22.10	21.09	22.46	22.85	20.68	22.10	21.09	22.46	22.85
	8H	20.95	22.32	21.38	22.71	23.10	20.95	22.32	21.38	22.71	23.10
	12H	21.19	22.50	21.62	22.88	23.31	21.19	22.50	21.62	22.88	23.31
4H	2H	17.80	19.33	18.20	19.67	20.04	17.80	19.33	18.20	19.67	20.04
	3H	20.11	21.41	20.52	21.80	22.20	20.11	21.41	20.52	21.80	22.20
	4H	21.08	22.27	21.51	22.68	23.11	21.08	22.27	21.51	22.68	23.11
	6H	21.93	22.97	22.38	23.41	23.86	21.93	22.97	22.38	23.41	23.86
	8H	22.27	23.25	22.73	23.69	24.15	22.27	23.25	22.73	23.69	24.15
	12H	22.58	23.47	23.06	23.94	24.41	22.58	23.47	23.06	23.94	24.41
8H	4H	21.49	22.47	21.95	22.91	23.37	21.49	22.47	21.95	22.91	23.37
	6H	22.49	23.32	22.98	23.80	24.27	22.49	23.32	22.98	23.80	24.27
	8H	22.94	23.69	23.45	24.19	24.67	22.94	23.69	23.45	24.19	24.67
	12H	23.38	24.04	23.88	24.52	25.08	23.38	24.04	23.88	24.52	25.08
12H	4H	21.56	22.45	22.04	22.92	23.38	21.56	22.45	22.04	22.92	23.38
	6H	22.60	23.34	23.10	23.84	24.32	22.60	23.34	23.10	23.84	24.32
	8H	23.13	23.79	23.63	24.28	24.83	23.13	23.79	23.63	24.28	24.83