

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: P865676

Luminaire Tested: PRLX-2002-S-935-20L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-935-20L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

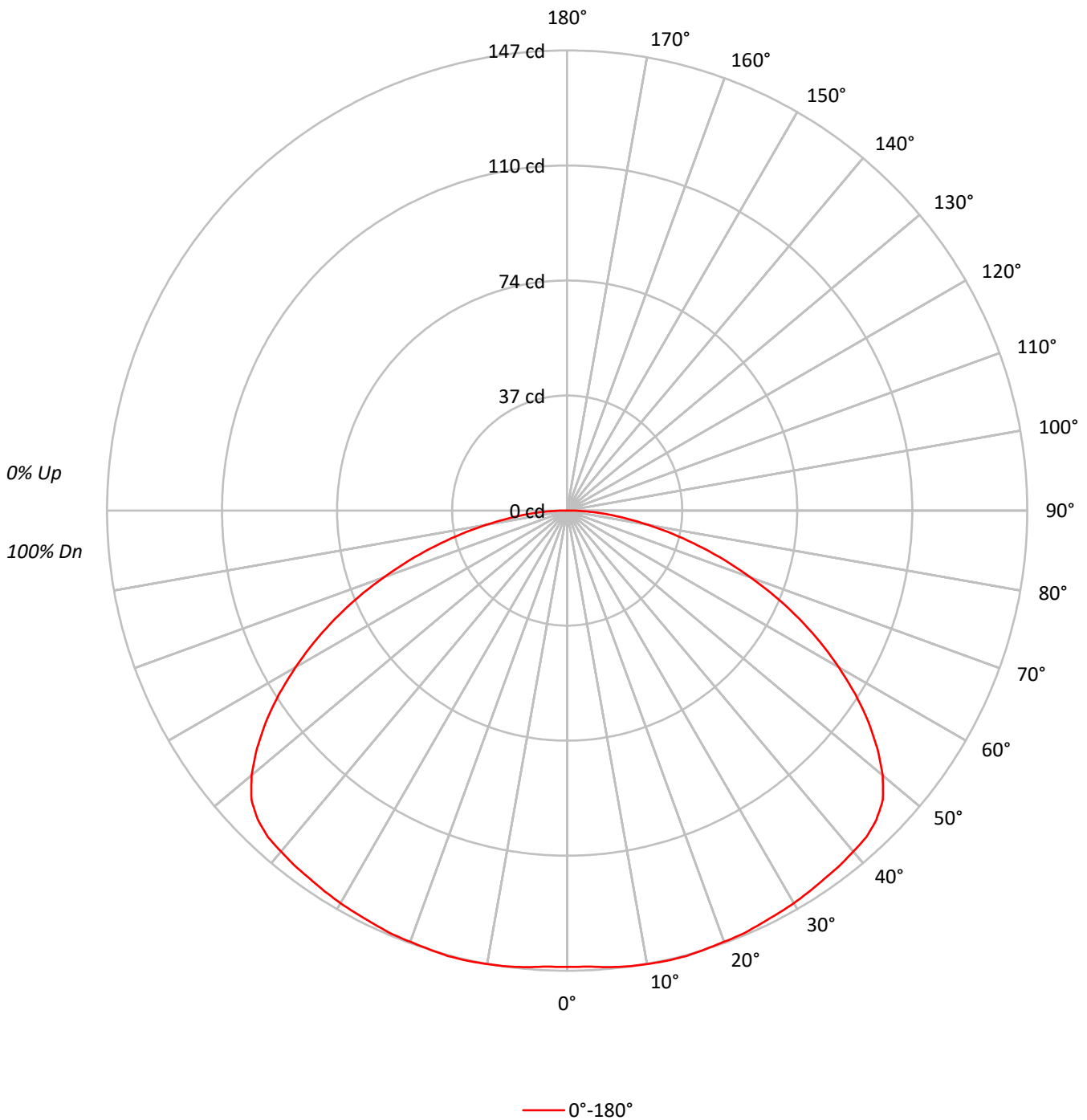
Lumens per Lamp: N/A
Luminaire Lumens: 565.6 lumens
Efficiency: N/A
Efficacy: 25.9 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.65
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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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		89	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	59		69	63	58		67	62	57	55
4	80	67	58	51	78	66	57	51	63	56	50		61	54	49		59	53	48	46
5	73	60	50	43	71	59	50	43	56	48	42		54	47	42		52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	37		49	42	36		47	41	36	34
7	62	48	39	32	60	47	38	32	46	38	32		44	37	32		43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28		40	33	28		39	33	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23		34	27	22		33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2739
5°	2761
10°	2806
15°	2865
20°	2931
25°	3022
30°	3141
35°	3291
40°	3487
45°	3711
50°	3846
55°	3845
60°	3764
65°	3636
70°	3416
75°	3150
80°	2834
85°	2543

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 3854 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.0	2.5
10°-20°	41.7	7.4
20°-30°	67.5	11.9
30°-40°	90.1	15.9
40°-50°	107.3	19.0
50°-60°	104.5	18.5
60°-70°	80.8	14.3
70°-80°	46.1	8.2
80°-90°	13.5	2.4
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°	123.1	21.8
0°-40°	213.3	37.7
0°-60°	425.2	75.2
0°-90°	565.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	565.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	146	
5°	146	14
15°	147	42
25°	146	67
35°	144	90
45°	140	107
55°	117	105
65°	82	81
75°	43	46
85°	12	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	145.8
2.5°	145.8
5°	146.4
7.5°	146.9
10°	147.1
12.5°	147.3
15°	147.3
17.5°	146.9
20°	146.6
22.5°	146.4
25°	145.8
27.5°	145.3
30°	144.8
32.5°	144.2
35°	143.5
37.5°	143.0
40°	142.2
42.5°	141.5
45°	139.7
47.5°	136.8
50°	131.6
52.5°	124.9
55°	117.4
57.5°	109.1
60°	100.2
62.5°	91.2
65°	81.8
67.5°	72.2
70°	62.2
72.5°	52.8
75°	43.4
77.5°	34.6
80°	26.2
82.5°	18.5
85°	11.8
87.5°	6.2
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	17.24	18.97	17.61	19.29	19.60	17.24	18.97	17.61	19.29	19.60
	3H	19.08	20.64	19.45	20.97	21.33	19.08	20.64	19.45	20.97	21.33
	4H	19.75	21.23	20.15	21.58	21.95	19.75	21.23	20.15	21.58	21.95
	6H	20.25	21.62	20.66	21.99	22.38	20.25	21.62	20.66	21.99	22.38
	8H	20.41	21.73	20.83	22.12	22.51	20.41	21.73	20.83	22.12	22.51
	12H	20.53	21.79	20.96	22.17	22.60	20.53	21.79	20.96	22.17	22.60
4H	2H	17.91	19.39	18.30	19.73	20.11	17.91	19.39	18.30	19.73	20.11
	3H	19.95	21.20	20.36	21.59	21.99	19.95	21.20	20.36	21.59	21.99
	4H	20.75	21.88	21.18	22.29	22.73	20.75	21.88	21.18	22.29	22.73
	6H	21.38	22.37	21.83	22.81	23.26	21.38	22.37	21.83	22.81	23.26
	8H	21.59	22.52	22.05	22.96	23.43	21.59	22.52	22.05	22.96	23.43
	12H	21.76	22.60	22.24	23.07	23.54	21.76	22.60	22.24	23.07	23.54
8H	4H	21.08	22.01	21.53	22.45	22.91	21.08	22.01	21.53	22.45	22.91
	6H	21.83	22.60	22.32	23.09	23.56	21.83	22.60	22.32	23.09	23.56
	8H	22.11	22.81	22.62	23.32	23.80	22.11	22.81	22.62	23.32	23.80
	12H	22.36	22.98	22.86	23.47	24.02	22.36	22.98	22.86	23.47	24.02
12H	4H	21.12	21.96	21.59	22.43	22.90	21.12	21.96	21.59	22.43	22.90
	6H	21.89	22.59	22.39	23.09	23.57	21.89	22.59	22.39	23.09	23.57
	8H	22.24	22.86	22.74	23.34	23.90	22.24	22.86	22.74	23.34	23.90