

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: P865679

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-7)
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-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

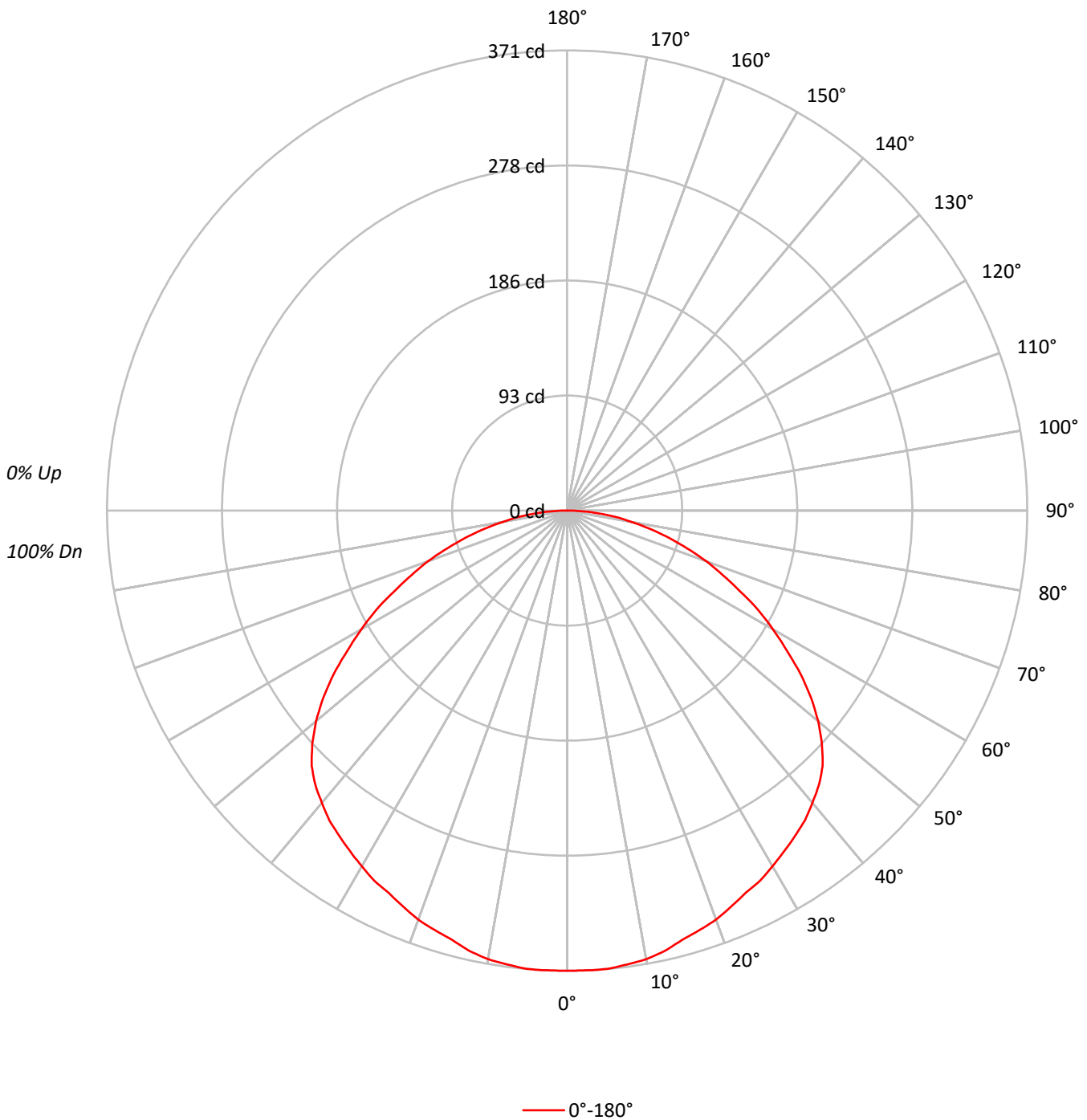
Lumens per Lamp: N/A
Luminaire Lumens: 1194.6 lumens
Efficiency: N/A
Efficacy: 54.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.49
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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	99	95	106	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	82	76	95	88	81	76	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	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	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6969
5°	6996
10°	7006
15°	6968
20°	7016
25°	7051
30°	7182
35°	7345
40°	7543
45°	7738
50°	7721
55°	7526
60°	7206
65°	6836
70°	6558
75°	6169
80°	5679
85°	5453

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 7749 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	3.0
10°-20°	101.5	8.5
20°-30°	157.5	13.2
30°-40°	200.8	16.8
40°-50°	223.4	18.7
50°-60°	204.7	17.1
60°-70°	153.1	12.8
70°-80°	89.9	7.5
80°-90°	28.3	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°	294.3	24.6
0°-40°	495.1	41.4
0°-60°	923.2	77.3
0°-90°	1194.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1194.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	371	
5°	371	35
15°	358	102
25°	340	158
35°	320	201
45°	291	223
55°	230	205
65°	154	153
75°	85	90
85°	25	28
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	371.0
2.5°	371.0
5°	371.0
7.5°	369.1
10°	367.3
12.5°	363.7
15°	358.3
17.5°	354.7
20°	351.0
22.5°	345.6
25°	340.2
27.5°	336.6
30°	331.1
32.5°	325.7
35°	320.3
37.5°	314.9
40°	307.6
42.5°	300.4
45°	291.3
47.5°	278.7
50°	264.2
52.5°	247.9
55°	229.8
57.5°	209.9
60°	191.8
62.5°	173.7
65°	153.8
67.5°	135.7
70°	119.4
72.5°	101.3
75°	85.0
77.5°	68.8
80°	52.5
82.5°	39.8
85°	25.3
87.5°	12.7
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	19.25	20.93	19.62	21.25	21.56	19.25	20.93	19.62	21.25	21.56
	3H	21.03	22.56	21.41	22.88	23.24	21.03	22.56	21.41	22.88	23.24
	4H	21.73	23.17	22.13	23.51	23.89	21.73	23.17	22.13	23.51	23.89
	6H	22.26	23.60	22.67	23.96	24.35	22.26	23.60	22.67	23.96	24.35
	8H	22.46	23.74	22.88	24.13	24.52	22.46	23.74	22.88	24.13	24.52
	12H	22.61	23.83	23.04	24.21	24.64	22.61	23.83	23.04	24.21	24.64
4H	2H	19.87	21.31	20.27	21.66	22.03	19.87	21.31	20.27	21.66	22.03
	3H	21.89	23.10	22.30	23.50	23.90	21.89	23.10	22.30	23.50	23.90
	4H	22.72	23.82	23.15	24.23	24.67	22.72	23.82	23.15	24.23	24.67
	6H	23.40	24.36	23.85	24.80	25.25	23.40	24.36	23.85	24.80	25.25
	8H	23.65	24.55	24.11	24.99	25.46	23.65	24.55	24.11	24.99	25.46
	12H	23.85	24.67	24.33	25.14	25.61	23.85	24.67	24.33	25.14	25.61
8H	4H	23.06	23.96	23.52	24.40	24.86	23.06	23.96	23.52	24.40	24.86
	6H	23.86	24.62	24.35	25.10	25.57	23.86	24.62	24.35	25.10	25.57
	8H	24.21	24.88	24.71	25.39	25.87	24.21	24.88	24.71	25.39	25.87
	12H	24.50	25.10	25.00	25.59	26.15	24.50	25.10	25.00	25.59	26.15
12H	4H	23.10	23.91	23.58	24.39	24.85	23.10	23.91	23.58	24.39	24.85
	6H	23.93	24.61	24.44	25.12	25.60	23.93	24.61	24.44	25.12	25.60
	8H	24.34	24.94	24.85	25.43	25.99	24.34	24.94	24.85	25.43	25.99