

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: P865639

Luminaire Tested: PRLX-2002-S-930-20L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865639
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-930-20L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

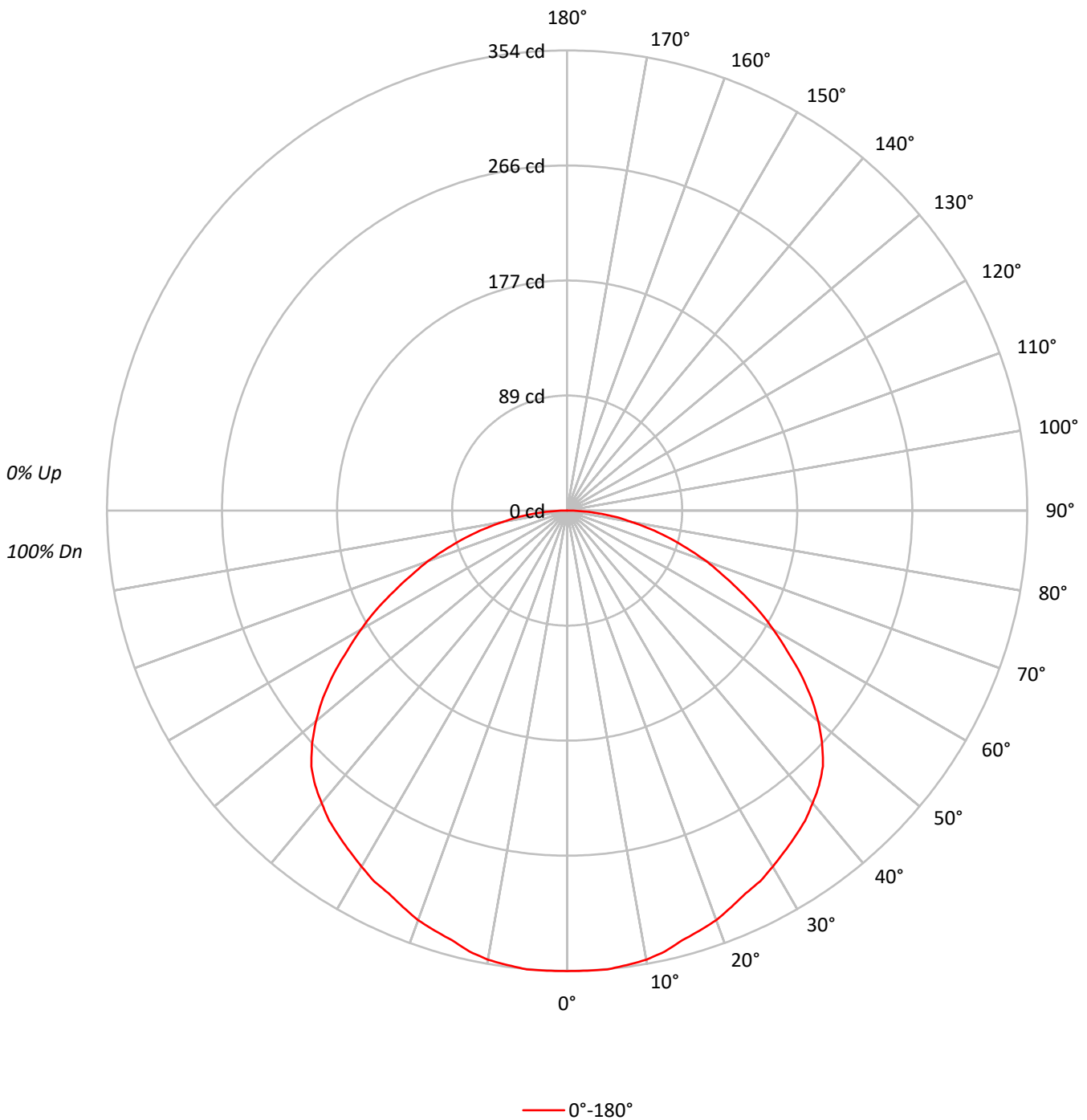
Lumens per Lamp: N/A
Luminaire Lumens: 1141.0 lumens
Efficiency: N/A
Efficacy: 52.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.49
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): 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°	6655
5°	6681
10°	6691
15°	6655
20°	6703
25°	6734
30°	6861
35°	7015
40°	7204
45°	7393
50°	7373
55°	7188
60°	6883
65°	6529
70°	6267
75°	5893
80°	5420
85°	5216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 7401 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.7	3.0
10°-20°	97.0	8.5
20°-30°	150.4	13.2
30°-40°	191.8	16.8
40°-50°	213.4	18.7
50°-60°	195.5	17.1
60°-70°	146.2	12.8
70°-80°	85.9	7.5
80°-90°	27.0	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°	281.1	24.6
0°-40°	472.9	41.4
0°-60°	881.8	77.3
0°-90°	1141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1141.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	354	
5°	354	34
15°	342	97
25°	325	150
35°	306	192
45°	278	213
55°	220	196
65°	147	146
75°	81	86
85°	24	27
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	354.3
2.5°	354.3
5°	354.3
7.5°	352.6
10°	350.8
12.5°	347.4
15°	342.2
17.5°	338.8
20°	335.3
22.5°	330.1
25°	324.9
27.5°	321.5
30°	316.3
32.5°	311.1
35°	305.9
37.5°	300.7
40°	293.8
42.5°	286.9
45°	278.3
47.5°	266.2
50°	252.3
52.5°	236.8
55°	219.5
57.5°	200.5
60°	183.2
62.5°	165.9
65°	146.9
67.5°	129.6
70°	114.1
72.5°	96.8
75°	81.2
77.5°	65.7
80°	50.1
82.5°	38.0
85°	24.2
87.5°	12.1
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	19.09	20.77	19.46	21.09	21.40	19.09	20.77	19.46	21.09	21.40
	3H	20.88	22.40	21.25	22.73	23.08	20.88	22.40	21.25	22.73	23.08
	4H	21.57	23.01	21.97	23.35	23.73	21.57	23.01	21.97	23.35	23.73
	6H	22.10	23.44	22.51	23.80	24.19	22.10	23.44	22.51	23.80	24.19
	8H	22.30	23.58	22.72	23.97	24.36	22.30	23.58	22.72	23.97	24.36
	12H	22.45	23.67	22.88	24.05	24.48	22.45	23.67	22.88	24.05	24.48
4H	2H	19.72	21.15	20.11	21.50	21.87	19.72	21.15	20.11	21.50	21.87
	3H	21.73	22.94	22.14	23.34	23.74	21.73	22.94	22.14	23.34	23.74
	4H	22.57	23.66	23.00	24.07	24.51	22.57	23.66	23.00	24.07	24.51
	6H	23.24	24.20	23.69	24.64	25.09	23.24	24.20	23.69	24.64	25.09
	8H	23.49	24.39	23.95	24.83	25.30	23.49	24.39	23.95	24.83	25.30
	12H	23.69	24.51	24.17	24.98	25.45	23.69	24.51	24.17	24.98	25.45
8H	4H	22.90	23.80	23.36	24.24	24.71	22.90	23.80	23.36	24.24	24.71
	6H	23.70	24.46	24.19	24.94	25.42	23.70	24.46	24.19	24.94	25.42
	8H	24.05	24.72	24.55	25.23	25.71	24.05	24.72	24.55	25.23	25.71
	12H	24.34	24.94	24.84	25.43	25.99	24.34	24.94	24.84	25.43	25.99
12H	4H	22.94	23.75	23.42	24.23	24.70	22.94	23.75	23.42	24.23	24.70
	6H	23.78	24.45	24.28	24.96	25.44	23.78	24.45	24.28	24.96	25.44
	8H	24.18	24.78	24.69	25.27	25.83	24.18	24.78	24.69	25.27	25.83