

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: G2-2404-080-2

Luminaire Tested: PRLX-309-WC-FR-120-TRBLGY-TFIN-DW-WH

Test Date: 2024-06-19

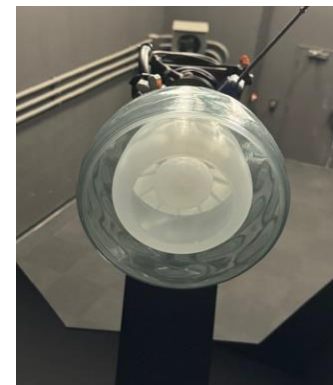
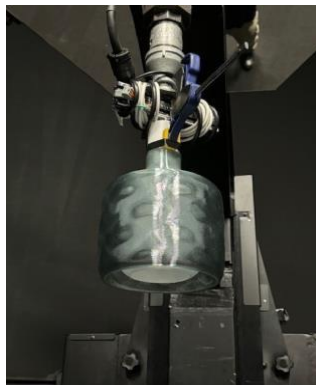
**Test Information**

Test Method: LM-79-2019  
Report Number: G2-2404-080-2  
Test Lab: Cooper Lighting Solutions  
Test Date: 2024-06-19  
Issue Date: 6/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-309-WC-FR-120-TRBLGY-TFIN-DW-WH  
Description: 3D PRINTED LED LAMP BASED DECORATIVE LUMIANIRE, 311 WATER JUG SHADE, FROSTED LAMP  
Light Source: Philips  
FROSTED BULB - 60W Equivalent 929002036204 8.8A19/PER/930/P/E26/DIM  
6/1FB T20  
Ballast/Driver: PHILIPS @Current  
INTEGRAL TO LAMP

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 624.2 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.2  
Luminous Opening: Vertical Cylinder (Dia: 0.62' x H: 0.79')  
CIE Type: Semi-Direct

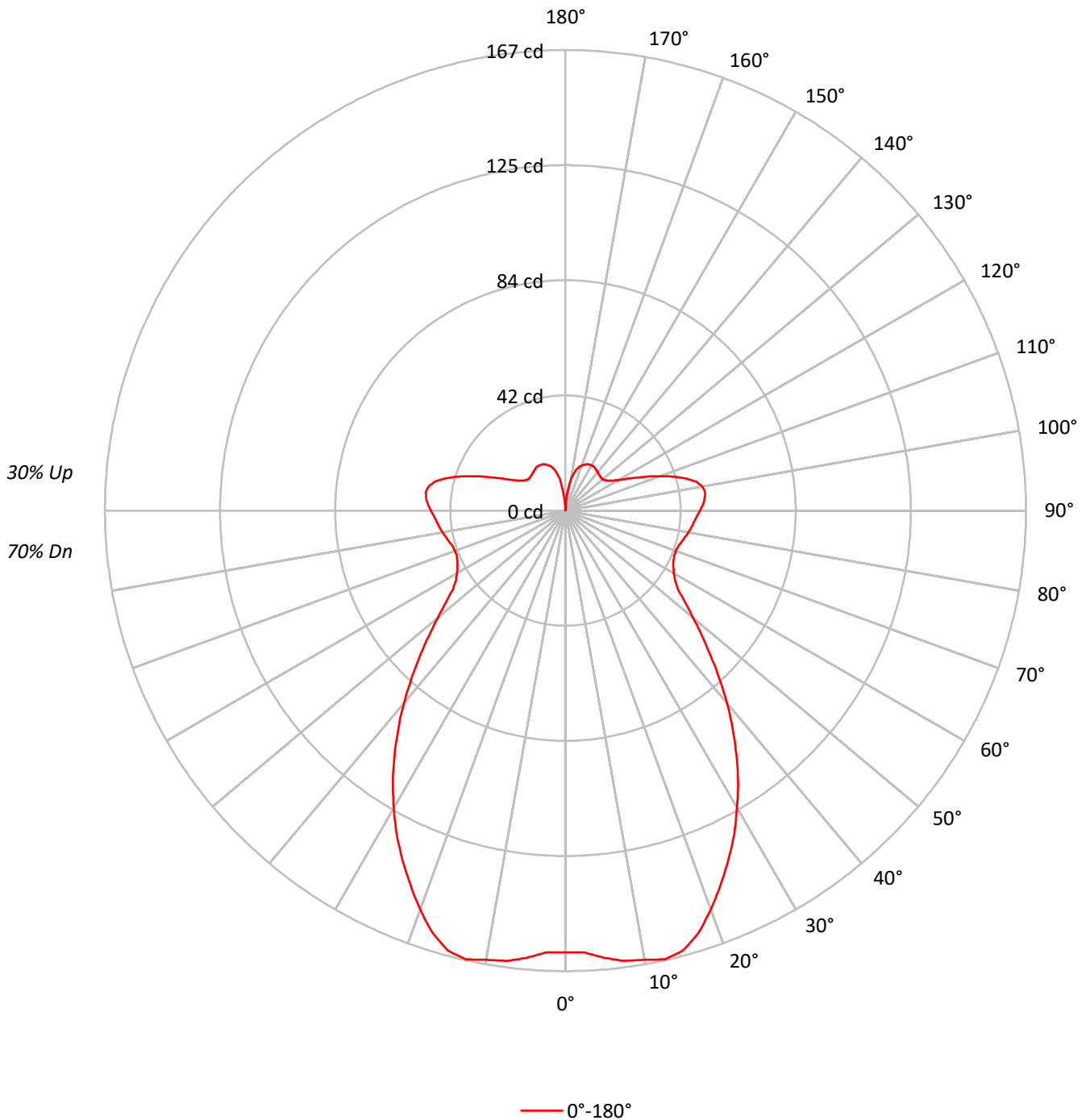
Input Watts (W): 7.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.0838  
Voltage Rise (V): NR  
Power Factor: 0.7862  
Total Harmonic Distortion (THDi): 78.1%  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 25.4  
Test Distance: 24 FT



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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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	75	75	75	70
1	99	94	89	84	93	88	84	80	79	75	72	70	67	64	61	59	57	53
2	90	81	74	68	85	77	70	65	68	63	59	61	56	53	53	50	47	43
3	82	71	63	56	77	68	60	54	60	54	49	54	49	45	47	43	40	37
4	75	63	55	48	71	60	52	46	54	47	42	48	43	38	43	38	35	32
5	69	57	48	41	65	54	46	40	48	42	37	43	38	34	39	34	31	28
6	64	51	43	36	60	49	41	35	44	37	32	40	34	30	35	31	27	25
7	60	47	38	32	56	44	37	31	40	34	29	36	31	27	33	28	25	22
8	56	43	34	29	52	41	33	28	37	31	26	33	28	24	30	26	22	20
9	52	39	31	26	49	37	30	25	34	28	23	31	26	22	28	24	20	18
10	49	36	29	24	46	35	28	23	32	26	21	29	24	20	26	22	19	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	5621
5°	5025
10°	4588
15°	4187
20°	3623
25°	3089
30°	2612
35°	2172
40°	1773
45°	1415
50°	1128
55°	922
60°	840
65°	804
70°	805
75°	844
80°	902
85°	969

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1415 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.6	2.5
10°-20°	46.0	7.4
20°-30°	64.2	10.3
30°-40°	67.4	10.8
40°-50°	57.8	9.3
50°-60°	45.7	7.3
60°-70°	43.2	6.9
70°-80°	46.3	7.4
80°-90°	51.2	8.2
90°-100°	54.9	8.8
100°-110°	47.1	7.5
110°-120°	28.5	4.6
120°-130°	17.3	2.8
130°-140°	13.8	2.2
140°-150°	11.7	1.9
150°-160°	8.5	1.4
160°-170°	4.3	0.7
170°-180°	0.6	0.1
0°-30°	125.9	20.2
0°-40°	193.3	31.0
0°-60°	296.7	47.5
0°-90°	437.4	70.1
90°-120°	130.5	20.9
90°-150°	173.3	27.8
90°-180°	187.0	30.0
0°-180°	624.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	160	
5°	163	16
15°	165	46
25°	140	64
35°	108	67
45°	74	58
55°	50	46
65°	43	43
75°	44	46
85°	47	38
90°	49	27
95°	51	41
105°	45	47
115°	28	28
125°	19	17
135°	18	14
145°	19	12
155°	19	9
165°	15	4
175°	4	1
180°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	160.2
2.5°	160.4
5°	162.8
7.5°	164.7
10°	165.4
12.5°	166.6
15°	165.1
17.5°	160.5
20°	154.0
22.5°	146.9
25°	139.8
27.5°	132.5
30°	124.5
32.5°	116.5
35°	108.0
37.5°	99.5
40°	91.1
42.5°	82.6
45°	74.5
47.5°	67.2
50°	60.4
52.5°	54.5
55°	49.8
57.5°	47.1
60°	45.4
62.5°	44.1
65°	43.2
67.5°	42.7
70°	42.6
72.5°	42.9
75°	43.7
77.5°	44.4
80°	45.3
82.5°	46.1
85°	46.8
87.5°	47.7
90°	48.8
92.5°	49.9
95°	50.7
97.5°	51.1
100°	50.4
102.5°	48.5
105°	45.1
107.5°	40.9
110°	36.4



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	32.1
115°	28.2
117.5°	24.8
120°	22.1
122.5°	20.2
125°	18.9
127.5°	18.1
130°	17.6
132.5°	17.6
135°	17.7
137.5°	17.9
140°	18.2
142.5°	18.4
145°	18.8
147.5°	19.0
150°	18.9
152.5°	18.8
155°	18.6
157.5°	18.0
160°	17.4
162.5°	16.6
165°	15.4
167.5°	13.7
170°	11.3
172.5°	8.2
175°	4.4
177.5°	1.0
180°	0.1



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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	7.50	8.62	8.26	9.41	10.36	7.50	8.62	8.26	9.41	10.36
	3H	9.95	10.98	10.72	11.77	12.75	9.95	10.98	10.72	11.77	12.75
	4H	11.28	12.26	12.06	13.06	14.05	11.28	12.26	12.06	13.06	14.05
	6H	12.71	13.62	13.50	14.43	15.43	12.71	13.62	13.50	14.43	15.43
	8H	13.42	14.29	14.22	15.12	16.13	13.42	14.29	14.22	15.12	16.13
	12H	14.14	14.98	14.95	15.80	16.83	14.14	14.98	14.95	15.80	16.83
4H	2H	8.10	9.08	8.89	9.88	10.87	8.10	9.08	8.89	9.88	10.87
	3H	10.82	11.66	11.61	12.49	13.50	10.82	11.66	11.61	12.49	13.50
	4H	12.32	13.11	13.14	13.94	14.97	12.32	13.11	13.14	13.94	14.97
	6H	13.95	14.64	14.77	15.50	16.53	13.95	14.64	14.77	15.50	16.53
	8H	14.77	15.42	15.59	16.27	17.32	14.77	15.42	15.59	16.27	17.32
	12H	15.60	16.20	16.45	17.07	18.13	15.60	16.20	16.45	17.07	18.13
8H	4H	12.84	13.49	13.67	14.35	15.39	12.84	13.49	13.67	14.35	15.39
	6H	14.67	15.24	15.53	16.13	17.18	14.67	15.24	15.53	16.13	17.18
	8H	15.65	16.16	16.51	17.04	18.11	15.65	16.16	16.51	17.04	18.11
	12H	16.67	17.13	17.53	18.01	19.12	16.67	17.13	17.53	18.01	19.12
12H	4H	12.96	13.56	13.81	14.43	15.48	12.96	13.56	13.81	14.43	15.48
	6H	14.87	15.38	15.73	16.27	17.33	14.87	15.38	15.73	16.27	17.33
	8H	15.93	16.39	16.80	17.27	18.38	15.93	16.39	16.80	17.27	18.38