

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: G2-2404-080-4

Luminaire Tested: PRLX-311-WC-FR-120-TRBLGY-TFIN-DW-WH

Test Date: 2024-06-18

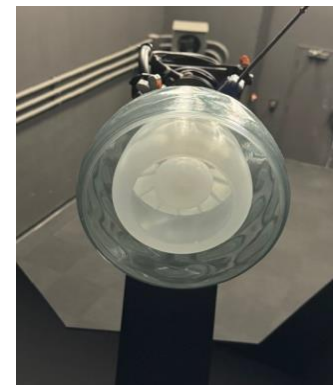
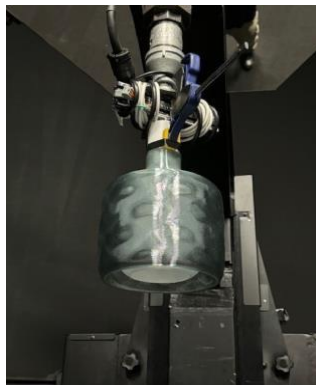
Test Information

Test Method: LM-79-2019
Report Number: G2-2404-080-4
Test Lab: Cooper Lighting Solutions
Test Date: 2024-06-18
Issue Date: 6/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-311-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: 697.5 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.64 / 1.64 / 1.62
Luminous Opening: Vertical Cylinder (Dia: 0.62' x H: 0.79')
CIE Type: Semi-Direct

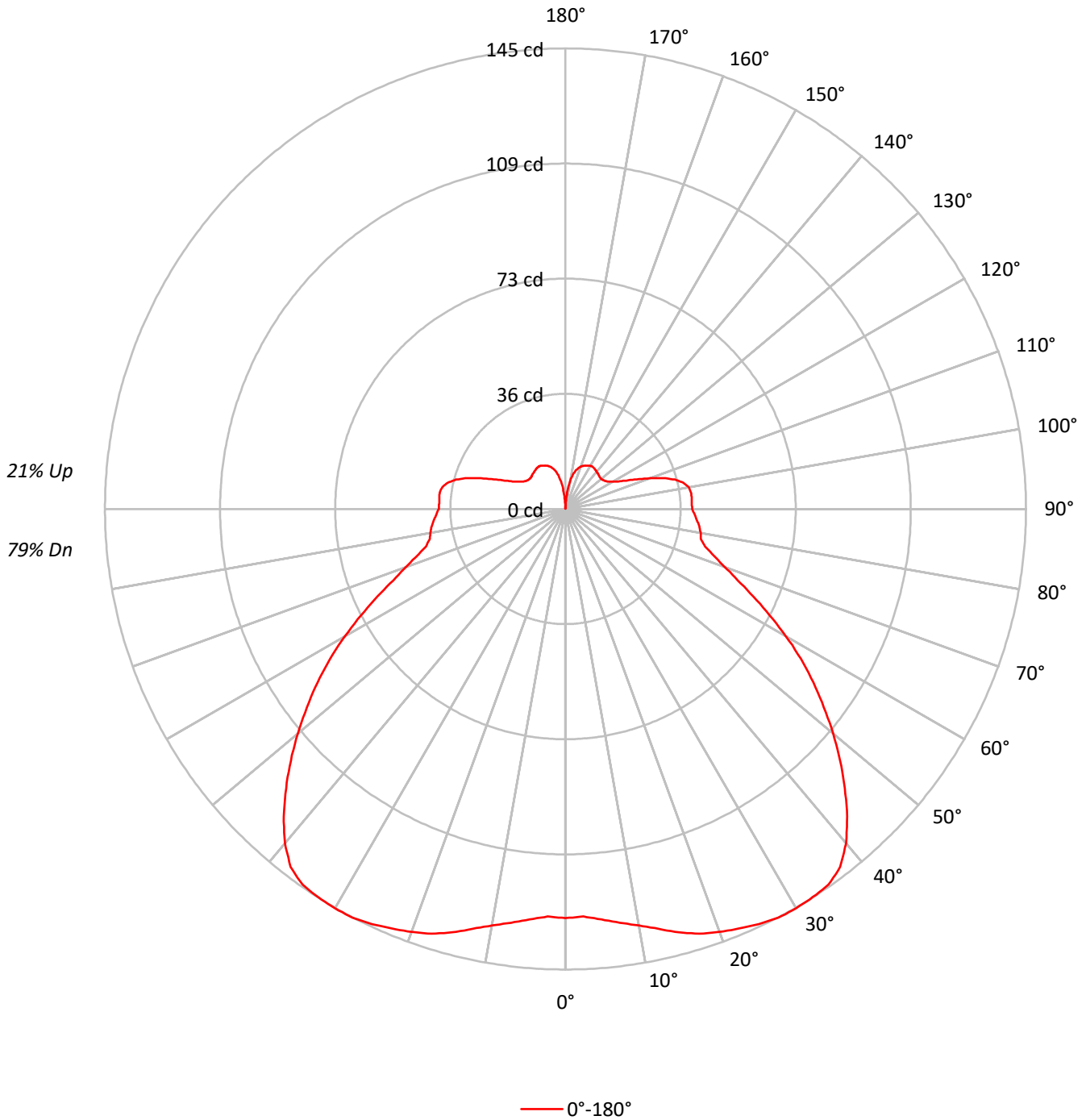
Input Watts (W): 7.9
Input Voltage (V): 120.0
Input Current (Ain): 0.0838
Voltage Rise (V): NR
Power Factor: 0.7862
Total Harmonic Distortion (THDi): 78.1%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.6
Test Distance: 24 FT



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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	114	114	114	114	109	109	109	109	99	99	99	99	91	91	91	82	82	82	79
1	102	96	91	87	97	92	87	83	84	80	77	77	76	73	71	69	67	65	61
2	92	83	75	69	87	79	72	67	72	67	62	62	66	61	57	60	56	53	50
3	83	72	64	57	79	69	61	55	63	57	51	51	57	52	48	52	48	44	41
4	76	64	54	48	72	61	52	46	56	49	43	43	51	45	40	46	41	38	35
5	70	56	47	40	66	54	46	39	50	42	37	37	45	39	35	41	36	32	30
6	64	51	41	35	61	48	40	34	44	37	32	32	41	35	30	37	32	28	26
7	59	46	37	30	56	44	35	30	40	33	28	28	37	31	26	34	29	25	22
8	55	41	33	27	52	40	32	26	37	30	25	25	34	28	23	31	26	22	20
9	51	38	29	24	49	36	29	23	34	27	22	22	31	25	21	29	23	20	18
10	48	35	27	21	45	33	26	21	31	24	20	20	29	23	19	26	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4519
5°	4003
10°	3692
15°	3500
20°	3334
25°	3186
30°	3046
35°	2905
40°	2674
45°	2362
50°	2055
55°	1765
60°	1484
65°	1216
70°	1007
75°	879
80°	860
85°	862

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2362 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	1.8
10°-20°	39.2	5.6
20°-30°	66.7	9.6
30°-40°	89.9	12.9
40°-50°	95.9	13.7
50°-60°	85.2	12.2
60°-70°	65.2	9.3
70°-80°	49.2	7.1
80°-90°	45.4	6.5
90°-100°	43.4	6.2
100°-110°	37.1	5.3
110°-120°	21.6	3.1
120°-130°	13.9	2.0
130°-140°	11.6	1.7
140°-150°	9.8	1.4
150°-160°	7.0	1.0
160°-170°	3.5	0.5
170°-180°	0.6	0.1
0°-30°	118.3	17.0
0°-40°	208.2	29.8
0°-60°	389.3	55.8
0°-90°	549.0	78.7
90°-120°	102.1	14.6
90°-150°	137.4	19.7
90°-180°	149.0	21.4
0°-180°	697.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	129	
5°	130	12
15°	138	39
25°	144	67
35°	144	90
45°	124	96
55°	95	85
65°	65	65
75°	46	49
85°	42	34
90°	40	22
95°	40	33
105°	36	37
115°	21	22
125°	15	14
135°	15	12
145°	16	10
155°	15	7
165°	12	4
175°	4	1
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	128.8
2.5°	128.4
5°	129.7
7.5°	131.4
10°	133.1
12.5°	135.4
15°	138.0
17.5°	140.2
20°	141.7
22.5°	143.0
25°	144.2
27.5°	145.1
30°	145.2
32.5°	144.9
35°	144.4
37.5°	142.1
40°	137.4
42.5°	131.3
45°	124.4
47.5°	117.3
50°	110.0
52.5°	102.6
55°	95.3
57.5°	87.9
60°	80.2
62.5°	72.5
65°	65.3
67.5°	58.7
70°	53.3
72.5°	48.9
75°	45.5
77.5°	43.7
80°	43.2
82.5°	42.5
85°	41.6
87.5°	40.7
90°	39.9
92.5°	39.8
95°	39.9
97.5°	39.9
100°	39.4
102.5°	38.1
105°	35.7
107.5°	32.3
110°	28.3



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	24.3
115°	21.1
117.5°	18.8
120°	17.1
122.5°	16.0
125°	15.3
127.5°	14.9
130°	14.7
132.5°	14.7
135°	14.9
137.5°	15.1
140°	15.3
142.5°	15.5
145°	15.7
147.5°	15.8
150°	15.7
152.5°	15.4
155°	15.1
157.5°	14.7
160°	14.2
162.5°	13.5
165°	12.5
167.5°	11.2
170°	9.3
172.5°	7.0
175°	4.0
177.5°	0.9
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	11.53	12.81	12.18	13.49	14.28	11.53	12.81	12.18	13.49	14.28
	3H	12.98	14.15	13.65	14.84	15.66	12.98	14.15	13.65	14.84	15.66
	4H	13.62	14.73	14.30	15.43	16.26	13.62	14.73	14.30	15.43	16.26
	6H	14.33	15.36	15.03	16.07	16.92	14.33	15.36	15.03	16.07	16.92
	8H	14.70	15.69	15.41	16.42	17.27	14.70	15.69	15.41	16.42	17.27
	12H	15.09	16.04	15.81	16.76	17.64	15.09	16.04	15.81	16.76	17.64
4H	2H	11.91	13.02	12.60	13.72	14.55	11.91	13.02	12.60	13.72	14.55
	3H	13.57	14.52	14.27	15.25	16.10	13.57	14.52	14.27	15.25	16.10
	4H	14.36	15.23	15.07	15.97	16.85	14.36	15.23	15.07	15.97	16.85
	6H	15.26	16.03	15.99	16.79	17.68	15.26	16.03	15.99	16.79	17.68
	8H	15.74	16.46	16.47	17.22	18.12	15.74	16.46	16.47	17.22	18.12
	12H	16.24	16.91	17.00	17.69	18.59	16.24	16.91	17.00	17.69	18.59
8H	4H	14.63	15.36	15.37	16.11	17.02	14.63	15.36	15.37	16.11	17.02
	6H	15.72	16.34	16.48	17.14	18.04	15.72	16.34	16.48	17.14	18.04
	8H	16.34	16.90	17.11	17.70	18.61	16.34	16.90	17.11	17.70	18.61
	12H	17.02	17.52	17.80	18.31	19.28	17.02	17.52	17.80	18.31	19.28
12H	4H	14.68	15.34	15.44	16.12	17.03	14.68	15.34	15.44	16.12	17.03
	6H	15.83	16.39	16.61	17.19	18.11	15.83	16.39	16.61	17.19	18.11
	8H	16.52	17.03	17.31	17.82	18.79	16.52	17.03	17.31	17.82	18.79