

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: G2-2404-080-3

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

Test Date: 2024-06-19

Test Information

Test Method: LM-79-2019
Report Number: G2-2404-080-3
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-311-WC-FIL-120-TRBLGY-TFIN-DW-WH
Description: 3D PRINTED LED LAMP BASED DECORATIVE LUMIANIRE, 309 WATER JUG SHADE, FILAMENT LAMP
Light Source: Philips
FILAMENT BULB - 60W Equivalent 929001969604
8A19/PER/927-922/CL/G/E26/WGX 1FB T20
Ballast/Driver: PHILIPS @Current
INTEGRAL TO LAMP

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 621.2 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 2.09 / 2.09 / 1.91
Luminous Opening: Vertical Cylinder (Dia: 0.62' x H: 0.79')
CIE Type: Semi-Direct

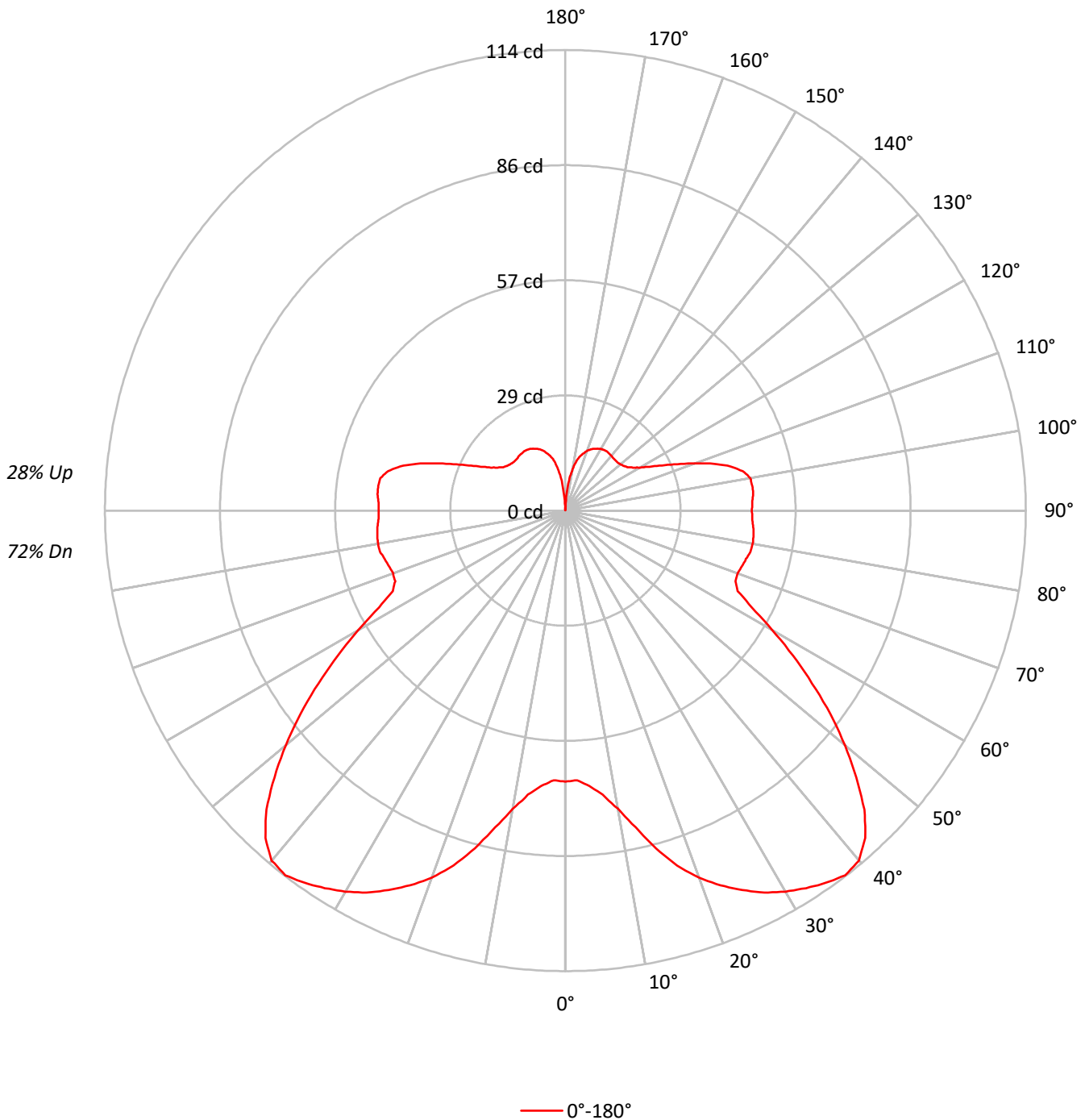
Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (Ain): 0.0793
Voltage Rise (V): NR
Power Factor: 0.8152
Total Harmonic Distortion (THDi): 70.5%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.2
Test Distance: 24 FT



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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	95	95	95	85	85	85	76	76	76	72
1	99	93	88	83	93	88	83	79	79	75	71	70	67	64	62	60	58	53
2	89	80	72	66	84	76	69	63	67	62	57	60	55	52	53	49	46	43
3	81	69	61	54	76	66	58	51	59	52	47	52	47	42	46	42	38	35
4	74	61	52	45	69	58	49	43	52	45	39	46	40	36	41	36	32	29
5	67	54	45	38	63	51	43	36	46	39	33	41	35	30	36	31	28	25
6	62	48	39	32	58	46	37	31	41	34	29	37	31	26	33	28	24	21
7	57	43	34	28	54	41	33	27	37	30	25	33	27	23	29	25	21	18
8	53	39	30	25	50	37	29	24	34	27	22	30	24	20	27	22	18	16
9	49	36	27	22	46	34	26	21	31	24	19	28	22	18	25	20	16	14
10	46	32	25	19	43	31	24	19	28	22	17	25	20	16	23	18	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2354
5°	2111
10°	2080
15°	2194
20°	2275
25°	2289
30°	2285
35°	2263
40°	2201
45°	1988
50°	1689
55°	1381
60°	1093
65°	877
70°	858
75°	894
80°	938
85°	967

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1988 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	1.1
10°-20°	24.8	4.0
20°-30°	48.0	7.7
30°-40°	70.4	11.3
40°-50°	79.9	12.9
50°-60°	66.8	10.7
60°-70°	48.8	7.9
70°-80°	49.0	7.9
80°-90°	50.9	8.2
90°-100°	50.7	8.2
100°-110°	44.0	7.1
110°-120°	26.8	4.3
120°-130°	17.1	2.8
130°-140°	13.6	2.2
140°-150°	11.2	1.8
150°-160°	7.8	1.3
160°-170°	3.9	0.6
170°-180°	0.6	0.1
0°-30°	79.5	12.8
0°-40°	149.9	24.1
0°-60°	296.6	47.7
0°-90°	445.3	71.7
90°-120°	121.6	19.6
90°-150°	163.5	26.3
90°-180°	176.0	28.3
0°-180°	621.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	67	
5°	68	7
15°	86	25
25°	104	48
35°	112	70
45°	105	80
55°	75	67
65°	47	49
75°	46	49
85°	47	38
90°	46	25
95°	47	38
105°	42	44
115°	26	27
125°	19	17
135°	18	14
145°	18	11
155°	17	8
165°	14	4
175°	5	1
180°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	67.1
2.5°	66.8
5°	68.4
7.5°	70.9
10°	75.0
12.5°	80.3
15°	86.5
17.5°	92.1
20°	96.7
22.5°	100.4
25°	103.6
27.5°	106.6
30°	108.9
32.5°	110.8
35°	112.5
37.5°	113.8
40°	113.1
42.5°	109.9
45°	104.7
47.5°	97.7
50°	90.4
52.5°	82.7
55°	74.6
57.5°	66.8
60°	59.1
62.5°	52.0
65°	47.1
67.5°	45.6
70°	45.4
72.5°	45.8
75°	46.3
77.5°	47.0
80°	47.1
82.5°	47.0
85°	46.7
87.5°	46.3
90°	46.2
92.5°	46.3
95°	46.7
97.5°	46.7
100°	46.5
102.5°	45.0
105°	42.3
107.5°	38.6
110°	34.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	30.0
115°	26.4
117.5°	23.5
120°	21.3
122.5°	19.8
125°	18.7
127.5°	18.2
130°	17.8
132.5°	17.6
135°	17.5
137.5°	17.6
140°	17.7
142.5°	17.8
145°	17.9
147.5°	17.8
150°	17.6
152.5°	17.3
155°	16.9
157.5°	16.4
160°	15.7
162.5°	14.8
165°	13.9
167.5°	12.5
170°	10.4
172.5°	8.1
175°	4.7
177.5°	1.1
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	9.80	11.01	10.53	11.77	12.69	9.80	11.01	10.53	11.77	12.69
	3H	11.41	12.52	12.15	13.29	14.23	11.41	12.52	12.15	13.29	14.23
	4H	12.42	13.47	13.18	14.25	15.21	12.42	13.47	13.18	14.25	15.21
	6H	13.58	14.56	14.35	15.35	16.32	13.58	14.56	14.35	15.35	16.32
	8H	14.17	15.11	14.95	15.92	16.89	14.17	15.11	14.95	15.92	16.89
	12H	14.76	15.66	15.55	16.47	17.47	14.76	15.66	15.55	16.47	17.47
4H	2H	10.11	11.16	10.87	11.95	12.90	10.11	11.16	10.87	11.95	12.90
	3H	12.05	12.96	12.83	13.77	14.75	12.05	12.96	12.83	13.77	14.75
	4H	13.29	14.12	14.07	14.94	15.94	13.29	14.12	14.07	14.94	15.94
	6H	14.68	15.42	15.48	16.26	17.26	14.68	15.42	15.48	16.26	17.26
	8H	15.39	16.09	16.19	16.92	17.94	15.39	16.09	16.19	16.92	17.94
	12H	16.11	16.75	16.94	17.61	18.63	16.11	16.75	16.94	17.61	18.63
8H	4H	13.72	14.42	14.52	15.25	16.27	13.72	14.42	14.52	15.25	16.27
	6H	15.33	15.93	16.16	16.80	17.82	15.33	15.93	16.16	16.80	17.82
	8H	16.19	16.74	17.03	17.61	18.64	16.19	16.74	17.03	17.61	18.64
	12H	17.09	17.58	17.94	18.45	19.53	17.09	17.58	17.94	18.45	19.53
12H	4H	13.81	14.46	14.64	15.31	16.34	13.81	14.46	14.64	15.31	16.34
	6H	15.50	16.05	16.34	16.92	17.95	15.50	16.05	16.34	16.92	17.95
	8H	16.44	16.94	17.29	17.80	18.88	16.44	16.94	17.29	17.80	18.88