

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: G2-2210-802-13

Luminaire Tested: PRLX-407-FR-120-CL-RHL-TFWHST-DW-WH

Test Date: 1/8/2023



**Test Information**

Test Method: LM-79-2019  
Report Number: G2-2210-802-13  
Test Lab: COOPER LIGHTING SOLUTIONS  
Test Date: 1/8/2023  
Issue Date: 1/8/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-407-FR-120-CL-RHL-TFWHST-DW-WH  
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, CLEAR (TRANSLUCENT) SHADE, FROSTED LAMP  
Light Source: 1 PHILIPS 60W FROSTED BULB  
FROSTED BULB - 60W EQUIVALENT 929002036204 8.8A19/PER/930/P/E26/DIM  
6/1FB T20. PHILIPS  
Ballast/Driver: INTEGRAL TO LAMP

**Summary**

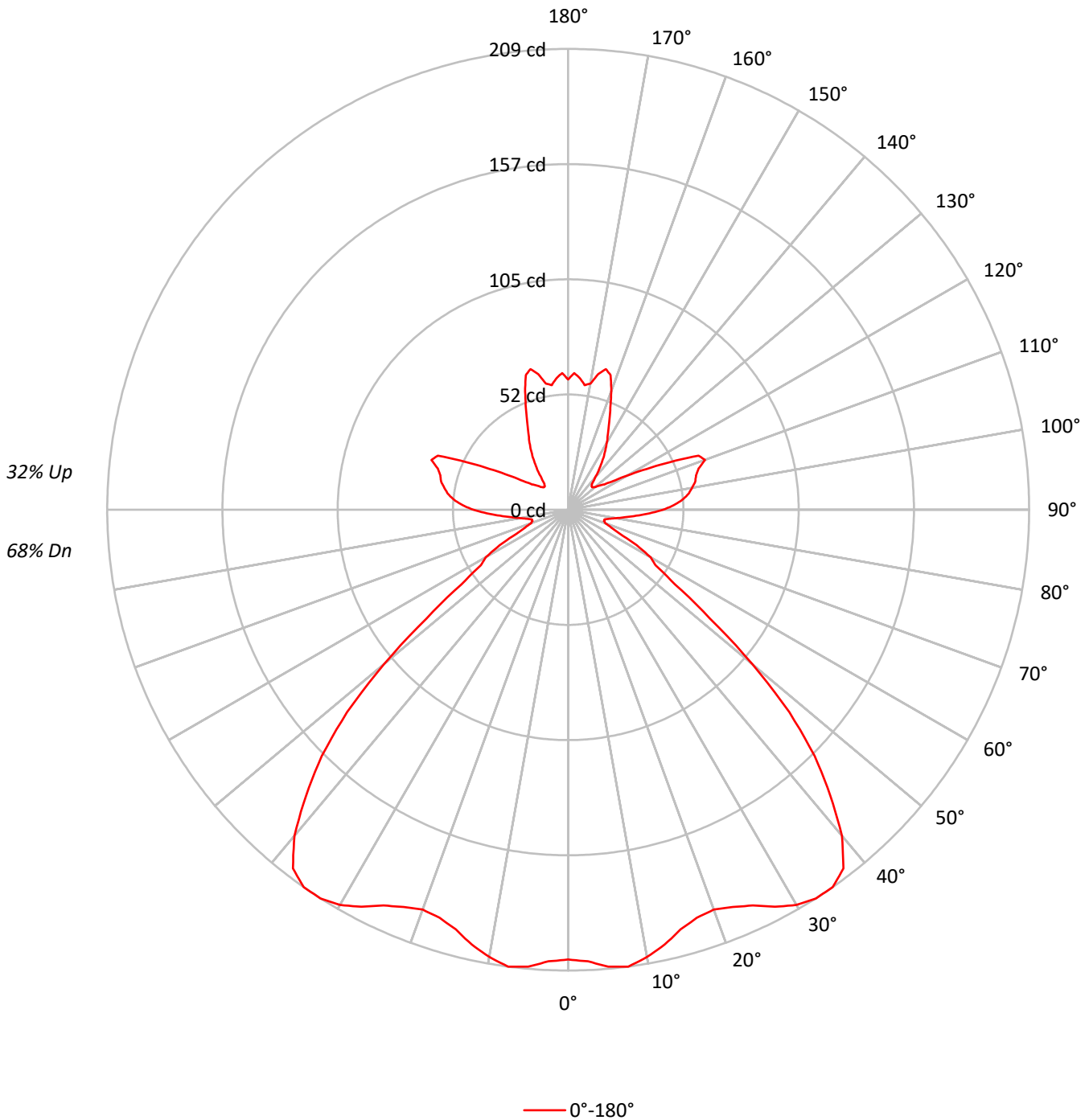
Lumens per Lamp: N/A  
Luminaire Lumens: 819.4 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Spacing Criteria (0/90/45): 1.54 / 1.54 / 1.46  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.17')  
CIE Type: Semi-Direct

Input Watts (W): 7.9  
Input Voltage (V): 120.0  
Input Current (A<sub>in</sub>): 0.0683  
Voltage Rise (V): NR  
Power Factor: 0.9514  
Total Harmonic Distortion (THDi): 23.9%  
Frequency (hertz): 60  
Stabilization Time: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 25.1  
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	111	111	111	111	105	105	105	105	93	93	93		82	82	82		73	73	73	68
1	101	97	93	89	96	92	88	85	81	79	76		72	70	68		64	62	61	57
2	93	86	79	74	88	81	75	71	72	68	64		64	61	58		57	55	52	49
3	86	76	69	63	80	72	65	60	65	59	55		58	54	50		51	48	46	42
4	79	68	60	54	74	64	57	52	58	52	48		52	47	44		46	43	40	37
5	73	61	53	47	68	58	51	45	52	46	42		47	42	38		42	38	35	32
6	67	55	47	41	63	52	45	40	47	41	37		43	38	34		38	34	31	29
7	62	50	42	36	59	47	40	35	43	37	33		39	34	30		35	31	28	26
8	58	45	38	32	55	43	36	31	39	33	29		36	31	27		32	28	25	23
9	54	41	34	29	51	40	33	28	36	30	26		33	28	24		30	26	23	21
10	50	38	31	26	48	36	30	25	33	28	24		30	26	22		28	24	21	19

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

	0°
0°	2054
5°	1892
10°	1720
15°	1531
20°	1413
25°	1380
30°	1387
35°	1358
40°	1226
45°	990
50°	678
55°	367
60°	270
65°	166
70°	118
75°	115
80°	155
85°	230

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 990 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.8	2.4
10°-20°	56.0	6.8
20°-30°	92.3	11.3
30°-40°	129.1	15.8
40°-50°	119.4	14.6
50°-60°	58.4	7.1
60°-70°	27.8	3.4
70°-80°	19.3	2.4
80°-90°	34.5	4.2
90°-100°	55.9	6.8
100°-110°	64.1	7.8
110°-120°	50.8	6.2
120°-130°	19.3	2.4
130°-140°	12.3	1.5
140°-150°	16.8	2.0
150°-160°	20.4	2.5
160°-170°	17.8	2.2
170°-180°	5.6	0.7
0°-30°	168.1	20.5
0°-40°	297.2	36.3
0°-60°	475.0	58.0
0°-90°	556.6	67.9
90°-120°	170.8	20.8
90°-150°	219.1	26.7
90°-180°	263.0	32.1
0°-180°	819.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	204	
5°	208	20
15°	197	56
25°	198	92
35°	209	129
45°	158	119
55°	59	58
65°	26	28
75°	17	19
85°	31	24
90°	43	23
95°	52	43
105°	60	64
115°	51	51
125°	20	19
135°	15	12
145°	27	17
155°	44	20
165°	66	18
175°	60	6
180°	59	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	204
2.5°	205
5°	208
7.5°	209
10°	206
12.5°	202
15°	197
17.5°	194
20°	193
22.5°	195
25°	198
27.5°	203
30°	207
32.5°	209
35°	209
37.5°	205
40°	193
42.5°	176
45°	158
47.5°	136
50°	109
52.5°	81
55°	59
57.5°	47
60°	43
62.5°	35
65°	26
67.5°	21
70°	18
72.5°	17
75°	17
77.5°	19
80°	22
82.5°	26
85°	31
87.5°	37
90°	43
92.5°	48
95°	52
97.5°	55
100°	57
102.5°	59
105°	60
107.5°	62
110°	66



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	64
115°	51
117.5°	40
120°	31
122.5°	24
125°	20
127.5°	18
130°	16
132.5°	15
135°	15
137.5°	16
140°	19
142.5°	23
145°	27
147.5°	31
150°	35
152.5°	39
155°	44
157.5°	50
160°	57
162.5°	64
165°	66
167.5°	63
170°	58
172.5°	57
175°	60
177.5°	62
180°	59

(END OF REPORT)