

Signify Classified - Internal  
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: G2-2210-802-34

Luminaire Tested: PRLX-413-FR-120-WHST-RHL-TFIN-DW-WH

Test Date: 1/11/2023



**Test Information**

Test Method: LM-79-2019  
Report Number: G2-2210-802-34  
Test Lab: COOPER LIGHTING SOLUTIONS  
Test Date: 1/11/2023  
Issue Date: 1/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-413-FR-120-WHST-RHL-TFIN-DW-WH  
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, WHITE (OPAQUE) 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

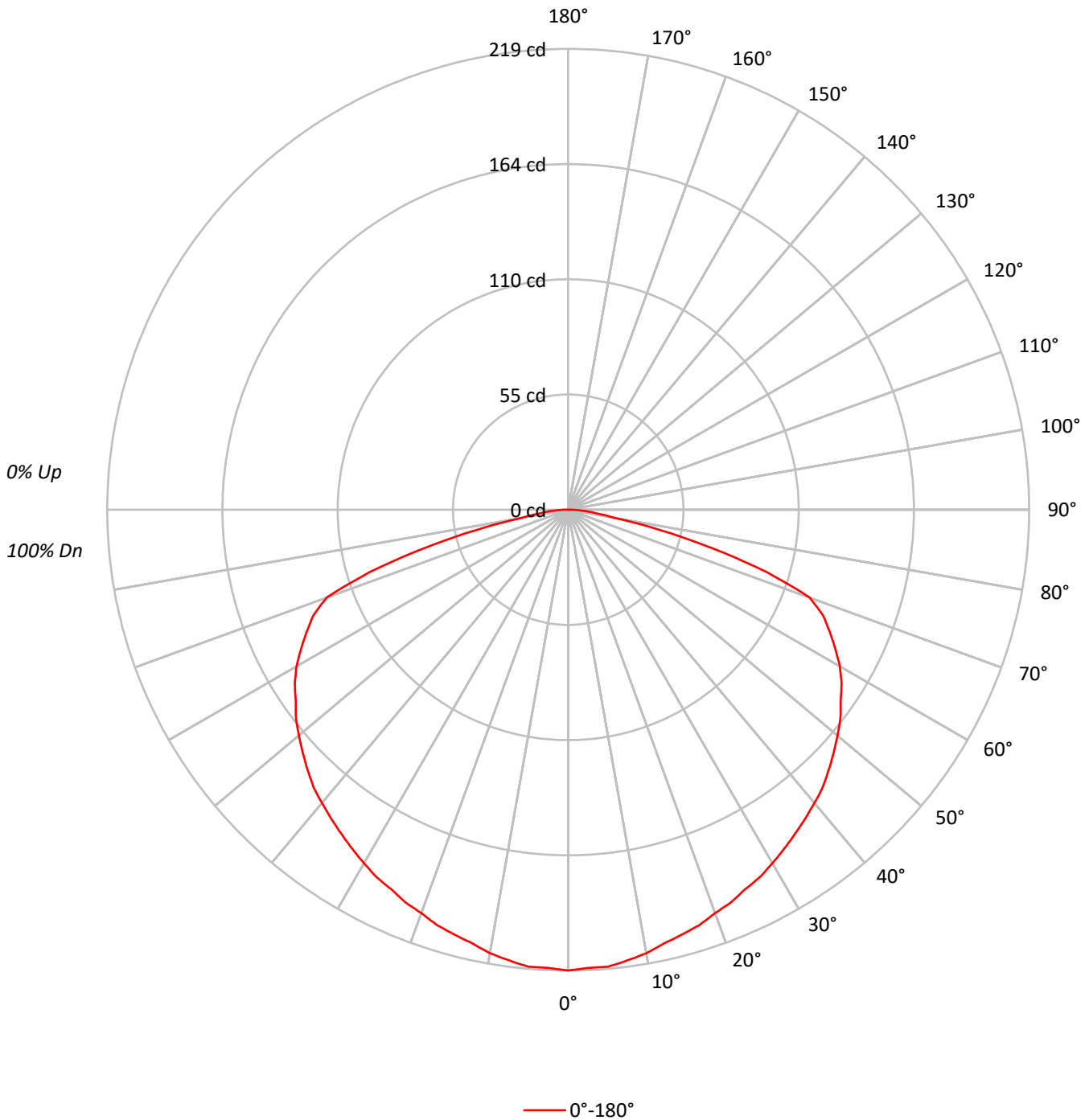
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 788.5 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.51  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 1')  
CIE Type: Direct  
  
Input Watts (W): 7.9  
Input Voltage (V): 120.0  
Input Current (A<sub>in</sub>): 0.0691  
Voltage Rise (V): NR  
Power Factor: 0.954  
Total Harmonic Distortion (THDi): 23.0%  
Frequency (hertz): 60  
Stabilization Time: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 25.5  
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	98	94	105	100	96	92	96	93	89		92	89	87		88	86	84	82
2	97	88	80	74	94	86	79	73	82	77	72		79	74	70		76	72	68	66
3	88	76	67	60	85	74	66	60	71	64	58		69	62	57		66	61	56	54
4	79	67	57	50	77	65	56	49	63	55	49		60	53	48		58	52	47	45
5	73	59	49	42	70	58	49	42	55	47	41		53	46	41		52	45	40	38
6	67	53	43	36	65	52	43	36	50	42	36		48	41	35		46	40	35	33
7	62	47	38	32	60	46	38	31	45	37	31		43	36	31		42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28		40	33	27		38	32	27	25
9	53	39	31	25	52	39	30	25	37	30	25		36	29	24		35	29	24	22
10	50	36	28	22	49	36	28	22	35	27	22		34	27	22		33	26	22	20

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

	0°
0°	1197
5°	1118
10°	1040
15°	973
20°	918
25°	873
30°	836
35°	803
40°	776
45°	750
50°	725
55°	701
60°	681
65°	650
70°	608
75°	375
80°	130
85°	55

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 750 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.7	2.6
10°-20°	59.1	7.5
20°-30°	92.1	11.7
30°-40°	118.0	15.0
40°-50°	135.3	17.2
50°-60°	141.8	18.0
60°-70°	135.5	17.2
70°-80°	75.6	9.6
80°-90°	10.5	1.3
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°	171.9	21.8
0°-40°	289.8	36.8
0°-60°	566.9	71.9
0°-90°	788.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	788.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	219	
5°	218	21
15°	209	59
25°	199	92
35°	188	118
45°	175	135
55°	158	142
65°	137	135
75°	71	76
85°	9	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	219
2.5°	218
5°	218
7.5°	216
10°	214
12.5°	211
15°	209
17.5°	207
20°	204
22.5°	202
25°	199
27.5°	197
30°	194
32.5°	191
35°	188
37.5°	185
40°	182
42.5°	179
45°	175
47.5°	171
50°	167
52.5°	163
55°	158
57.5°	154
60°	149
62.5°	143
65°	137
67.5°	131
70°	122
72.5°	99
75°	71
77.5°	45
80°	23
82.5°	14
85°	9
87.5°	4
90°	0

(END OF REPORT)