

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: G2-2210-802-46

Luminaire Tested: PRLX-401-FR-120-BKMT-RHL-TFIN-DB-BK

Test Date: 1/4/2023



**Test Information**

Test Method: LM-79-2019  
Report Number: G2-2210-802-46  
Test Lab: COOPER LIGHTING SOLUTIONS  
Test Date: 1/4/2023  
Issue Date: 1/4/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-401-FR-120-BKMT-RHL-TFIN-DB-BK  
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, BLACK (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

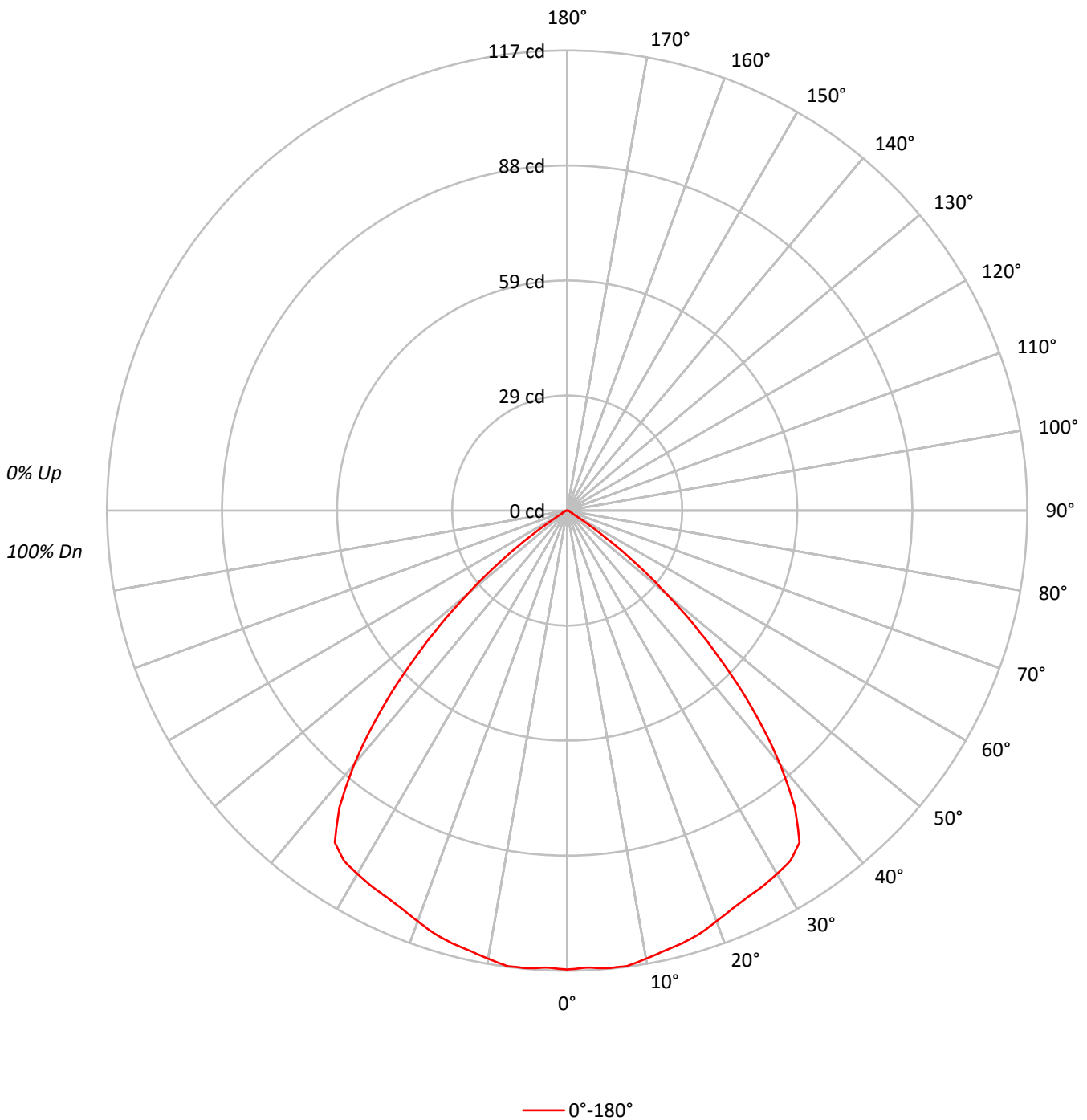
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 215.2 lumens  
Efficiency: N/A  
Efficacy: 27.9 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.29  
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.92')  
CIE Type: Direct  
  
Input Watts (W): 7.7  
Input Voltage (V): 120.0  
Input Current (A<sub>in</sub>): 0.0676  
Voltage Rise (V): NR  
Power Factor: 0.9493  
Total Harmonic Distortion (THDi): 24.6%  
Frequency (hertz): 60  
Stabilization Time: 0.333 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91				91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82				82
3	98	91	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73				73
4	92	83	76	71	90	81	75	70	79	74	69	77	72	69	75	71	68	66				66
5	86	76	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59				59
6	80	69	62	57	78	68	61	57	67	61	56	65	60	56	64	59	55	54				54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48				48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44				44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37				37

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

	0°
0°	3599
5°	3135
10°	2768
15°	2473
20°	2227
25°	2032
30°	1889
35°	1742
40°	1374
45°	934
50°	516
55°	181
60°	24
65°	18
70°	14
75°	9
80°	6
85°	3

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 934 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.1	5.2
10°-20°	32.1	14.9
20°-30°	50.2	23.3
30°-40°	62.4	29.0
40°-50°	45.0	20.9
50°-60°	12.1	5.6
60°-70°	1.2	0.6
70°-80°	0.6	0.3
80°-90°	0.2	0.1
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°	93.5	43.5
0°-40°	155.9	72.5
0°-60°	213.1	99.0
0°-90°	215.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	215.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	117	
5°	117	11
15°	114	32
25°	108	50
35°	103	62
45°	59	45
55°	12	12
65°	1	1
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	116.7
2.5°	116.3
5°	116.8
7.5°	116.8
10°	115.7
12.5°	114.6
15°	113.8
17.5°	112.7
20°	111.1
22.5°	109.6
25°	108.5
27.5°	107.7
30°	106.7
32.5°	105.6
35°	103.0
37.5°	95.1
40°	84.3
42.5°	72.0
45°	58.9
47.5°	45.8
50°	33.2
52.5°	21.7
55°	11.8
57.5°	4.5
60°	1.6
62.5°	1.4
65°	1.2
67.5°	1.0
70°	0.9
72.5°	0.7
75°	0.6
77.5°	0.5
80°	0.4
82.5°	0.3
85°	0.2
87.5°	0.1
90°	0.0

(END OF REPORT)