

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: G2-2210-802-49

Luminaire Tested: PRLX-407-FR-120-BKMT-RHL-TFIN-DB-BK

Test Date: 1/6/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-49
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 1/6/2023
Issue Date: 1/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-407-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

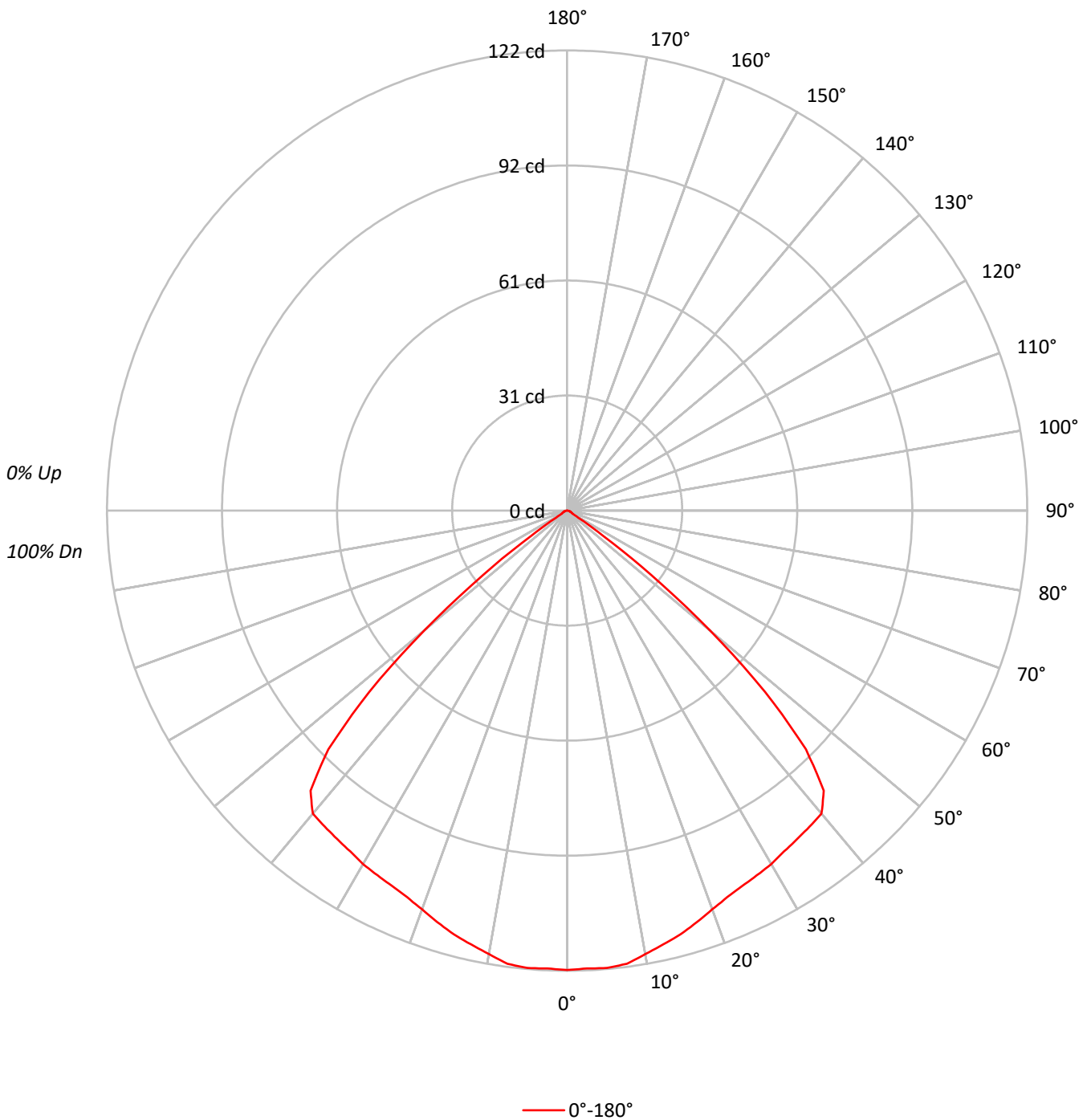
Lumens per Lamp: N/A
Luminaire Lumens: 244.0 lumens
Efficiency: N/A
Efficacy: 30.9 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.43
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.17')
CIE Type: Direct

Input Watts (W): 7.9
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0688
Voltage Rise (V): NR
Power Factor: 0.9531
Total Harmonic Distortion (THDi): 23.3%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.4
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	101	102	100	98	99	97	95	95	94	93	91				91
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81				81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58				58
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52				52
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42				42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38				38
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	40	36	35				35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1226
5°	1107
10°	997
15°	904
20°	824
25°	765
30°	725
35°	691
40°	667
45°	561
50°	307
55°	72
60°	10
65°	8
70°	6
75°	4
80°	3
85°	1

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 561 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.5	4.7
10°-20°	32.8	13.4
20°-30°	50.9	20.8
30°-40°	66.8	27.4
40°-50°	64.9	26.6
50°-60°	15.0	6.1
60°-70°	1.3	0.5
70°-80°	0.7	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°	95.2	39.0
0°-40°	162.0	66.4
0°-60°	241.9	99.1
0°-90°	244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	244.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	122	
5°	122	12
15°	116	33
25°	110	51
35°	106	67
45°	90	65
55°	12	15
65°	1	1
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	121.8
2.5°	121.5
5°	121.7
7.5°	121.2
10°	119.4
12.5°	117.8
15°	116.3
17.5°	114.4
20°	112.5
22.5°	110.9
25°	109.8
27.5°	109.0
30°	108.2
32.5°	107.1
35°	106.3
37.5°	105.6
40°	104.9
42.5°	100.7
45°	89.5
47.5°	71.2
50°	49.3
52.5°	28.0
55°	11.6
57.5°	3.5
60°	1.6
62.5°	1.5
65°	1.3
67.5°	1.1
70°	0.9
72.5°	0.8
75°	0.6
77.5°	0.5
80°	0.4
82.5°	0.2
85°	0.2
87.5°	0.0
90°	0.0

(END OF REPORT)