

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: G2-2210-802-39

Luminaire Tested: PRLX-405-FIL-120-BKMT-RHL-TFIN-DB-BK

Test Date: 1/5/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-39
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 1/5/2023
Issue Date: 1/5/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-405-FIL-120-BKMT-RHL-TFIN-DB-BK
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, BLACK (OPAQUE) SHADE, FILAMENT LAMP
Light Source: 1 PHILIPS 60W CLEAR BULB
FILAMENT BULB - 60W EQUIVALENT 929001969604
8A19/PER/927-922/CL/G/E26/WGX 1FB T20. PHILIPS
Ballast/Driver: INTEGRAL TO LAMP

Summary

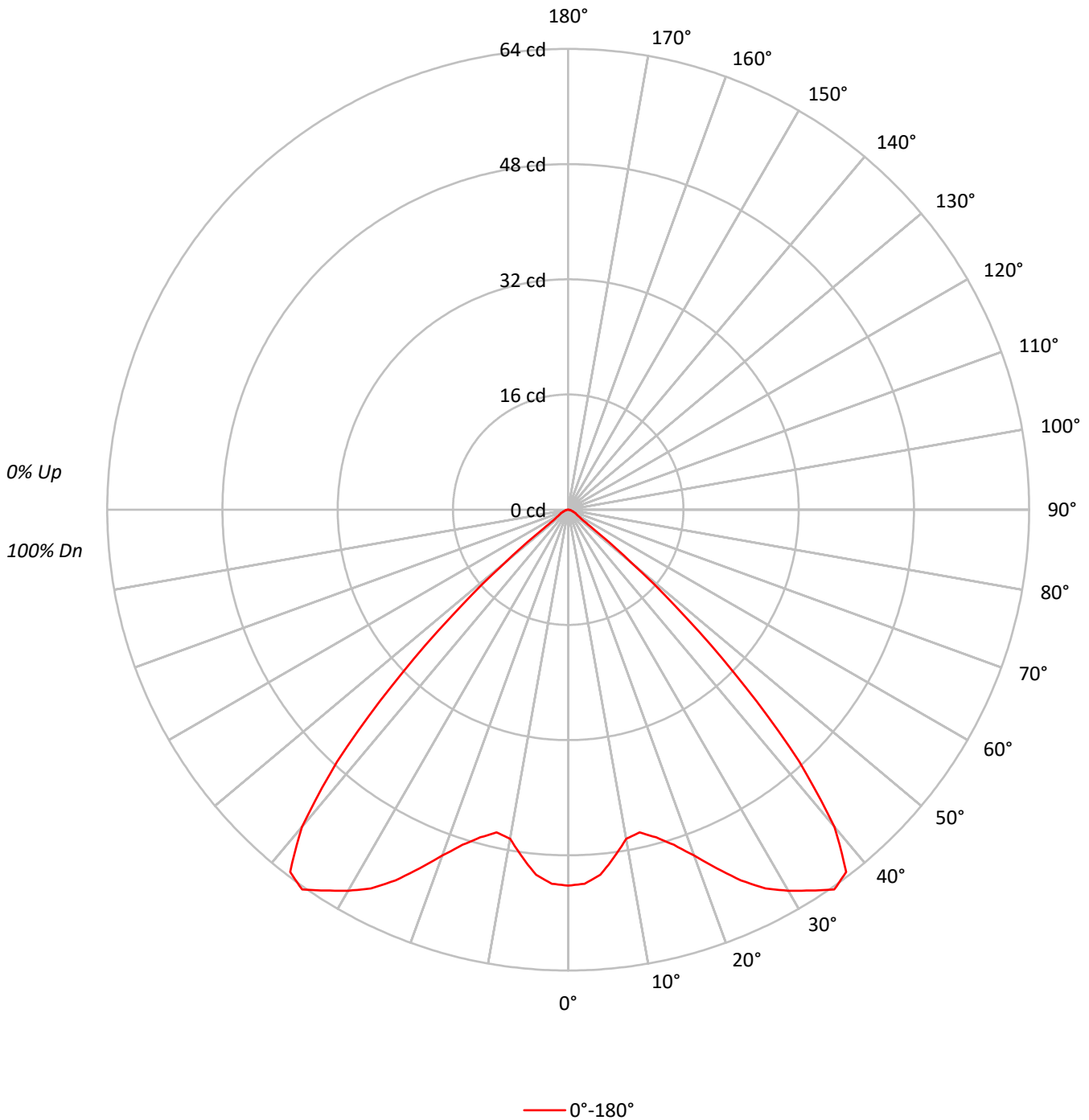
Lumens per Lamp: N/A
Luminaire Lumens: 115.0 lumens
Efficiency: N/A
Efficacy: 14.7 lumens/watt
Spacing Criteria (0/90/45): 1.67 / 1.67 / 1.4
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.92')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0794
Voltage Rise (V): NR
Power Factor: 0.8153
Total Harmonic Distortion (THDi): 70.4%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.5
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	112	109	106	103	110	107	104	102	103	100	98		99	97	95		95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77		83	79	76		81	78	75	73
4	91	82	75	70	89	81	74	69	78	73	69		76	72	68		74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61		70	65	61		68	64	60	58
6	79	68	61	56	78	67	60	55	66	60	55		64	59	54		63	58	54	52
7	74	62	55	50	72	62	55	50	60	54	49		59	53	49		58	53	49	47
8	69	57	50	45	68	57	50	45	55	49	45		54	49	44		53	48	44	42
9	65	53	46	41	63	52	45	41	51	45	40		50	44	40		49	44	40	38
10	61	49	42	37	59	48	41	37	47	41	37		46	41	37		46	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1610
5°	1366
10°	1110
15°	1024
20°	1024
25°	1064
30°	1082
35°	1089
40°	937
45°	552
50°	179
55°	34
60°	21
65°	15
70°	11
75°	6
80°	5
85°	2

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 552 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	4.1
10°-20°	13.6	11.8
20°-30°	26.3	22.9
30°-40°	39.2	34.1
40°-50°	26.4	23.0
50°-60°	3.2	2.8
60°-70°	1.0	0.9
70°-80°	0.4	0.4
80°-90°	0.1	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°	44.6	38.8
0°-40°	83.8	72.8
0°-60°	113.4	98.6
0°-90°	115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	115.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	52	
5°	51	5
15°	47	14
25°	57	26
35°	64	39
45°	35	26
55°	2	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	52.2
2.5°	52.0
5°	50.9
7.5°	48.7
10°	46.4
12.5°	45.9
15°	47.1
17.5°	48.8
20°	51.1
22.5°	53.9
25°	56.8
27.5°	59.3
30°	61.1
32.5°	62.7
35°	64.4
37.5°	63.4
40°	57.5
42.5°	47.5
45°	34.8
47.5°	22.3
50°	11.5
52.5°	4.3
55°	2.2
57.5°	1.7
60°	1.4
62.5°	1.2
65°	1.0
67.5°	0.8
70°	0.7
72.5°	0.5
75°	0.4
77.5°	0.3
80°	0.3
82.5°	0.2
85°	0.1
87.5°	0.1
90°	0.0

(END OF REPORT)