

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: G2-2210-802-43

Luminaire Tested: PRLX-413-FIL-120-BKMT-RHL-TFIN-DB-BK

Test Date: 1/10/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-43
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 1/10/2023
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-413-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

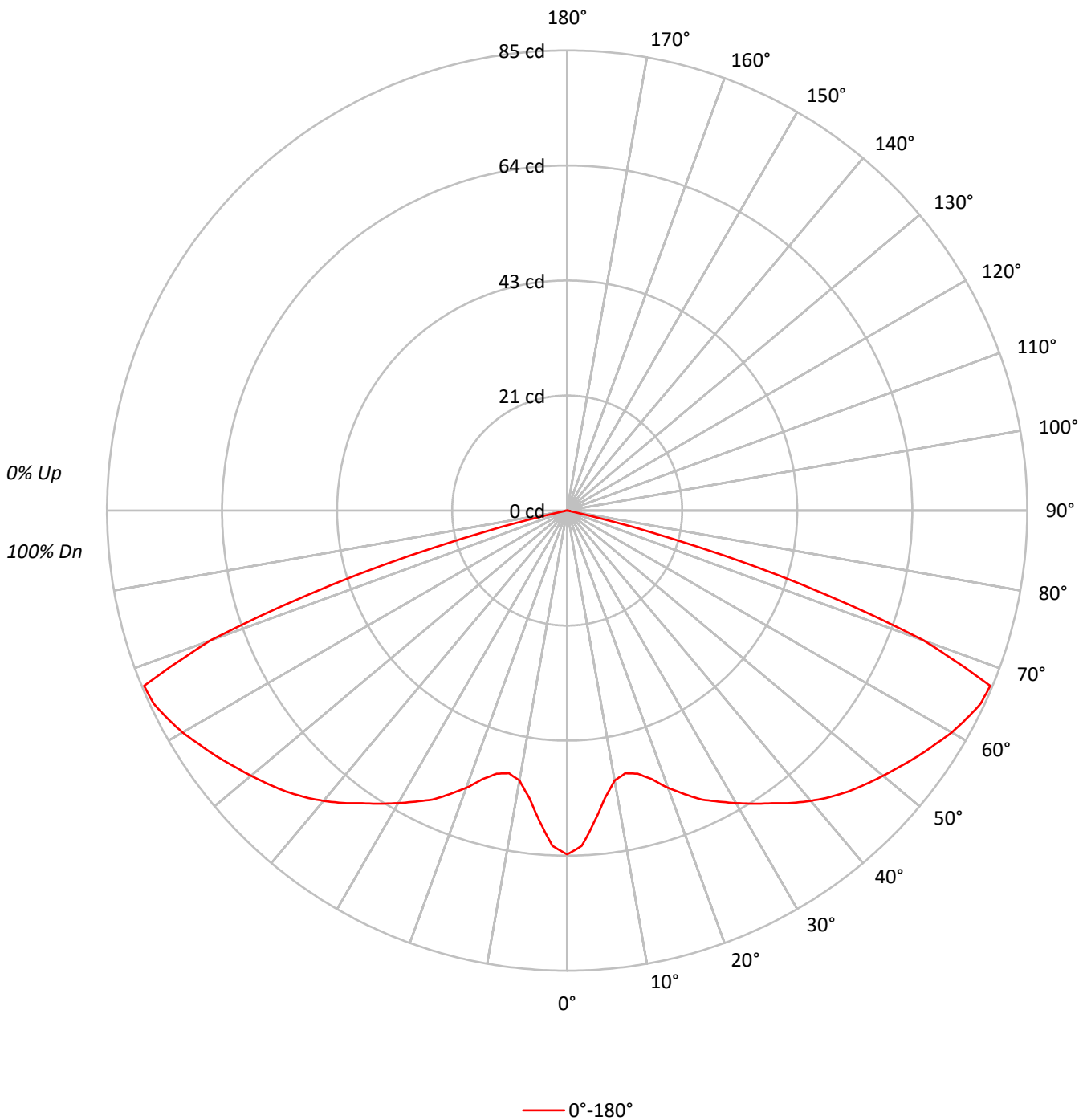
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 325.0 lumens
Efficiency: N/A
Efficacy: 41.7 lumens/watt
Spacing Criteria (0/90/45): 1.66 / 1.66 / 1.95
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 1')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0795
Voltage Rise (V): NR
Power Factor: 0.8149
Total Harmonic Distortion (THDi): 70.7%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.3
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	102	98	93	105	100	96	92	96	92	89		92	89	86		88	86	83	81
2	96	86	78	72	93	84	77	71	81	75	69		77	72	68		74	70	66	64
3	85	73	64	56	83	72	63	56	69	61	55		66	59	54		63	57	53	50
4	77	63	53	45	74	62	52	45	59	51	44		56	49	43		54	48	43	40
5	70	55	45	37	67	54	44	37	51	43	36		49	42	36		47	41	35	33
6	63	48	38	31	61	47	38	31	45	37	30		44	36	30		42	35	30	27
7	58	43	33	26	56	42	33	26	40	32	26		39	31	26		37	31	25	23
8	54	39	29	23	52	38	29	23	36	28	22		35	28	22		34	27	22	20
9	50	35	26	20	48	34	26	20	33	25	20		32	25	19		31	24	19	17
10	46	32	23	18	45	31	23	17	30	23	17		29	22	17		28	22	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	347
5°	296
10°	246
15°	234
20°	245
25°	258
30°	269
35°	282
40°	298
45°	315
50°	331
55°	351
60°	375
65°	400
70°	349
75°	105
80°	3
85°	1

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 67.5°
 Luminance: 411 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	1.6
10°-20°	14.6	4.5
20°-30°	27.3	8.4
30°-40°	41.6	12.8
40°-50°	56.8	17.5
50°-60°	71.0	21.8
60°-70°	81.4	25.0
70°-80°	26.8	8.2
80°-90°	0.3	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°	47.1	14.5
0°-40°	88.7	27.3
0°-60°	216.5	66.6
0°-90°	325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	325.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	64	
5°	58	5
15°	50	15
25°	59	27
35°	66	42
45°	73	57
55°	79	71
65°	84	81
75°	20	27
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	63.5
2.5°	62.0
5°	57.7
7.5°	53.5
10°	50.6
12.5°	49.7
15°	50.3
17.5°	52.0
20°	54.5
22.5°	56.7
25°	58.9
27.5°	60.6
30°	62.4
32.5°	64.2
35°	66.0
37.5°	68.1
40°	70.0
42.5°	71.8
45°	73.4
47.5°	74.8
50°	76.2
52.5°	77.6
55°	79.1
57.5°	80.5
60°	82.0
62.5°	83.2
65°	84.3
67.5°	84.6
70°	70.0
72.5°	45.6
75°	19.9
77.5°	1.6
80°	0.5
82.5°	0.5
85°	0.2
87.5°	0.1
90°	0.0

(END OF REPORT)