

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: G2-2210-802-4

Luminaire Tested: PRLX-407-FIL-120-CL-RHL-TFWHST-DW-WH

Test Date: 01/08/23



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-4
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 01/08/23
Issue Date: 01/08/23
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-407-FIL-120-CL-RHL-TFWHST-DW-WH
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, CLEAR (TRANSLUCENT) 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

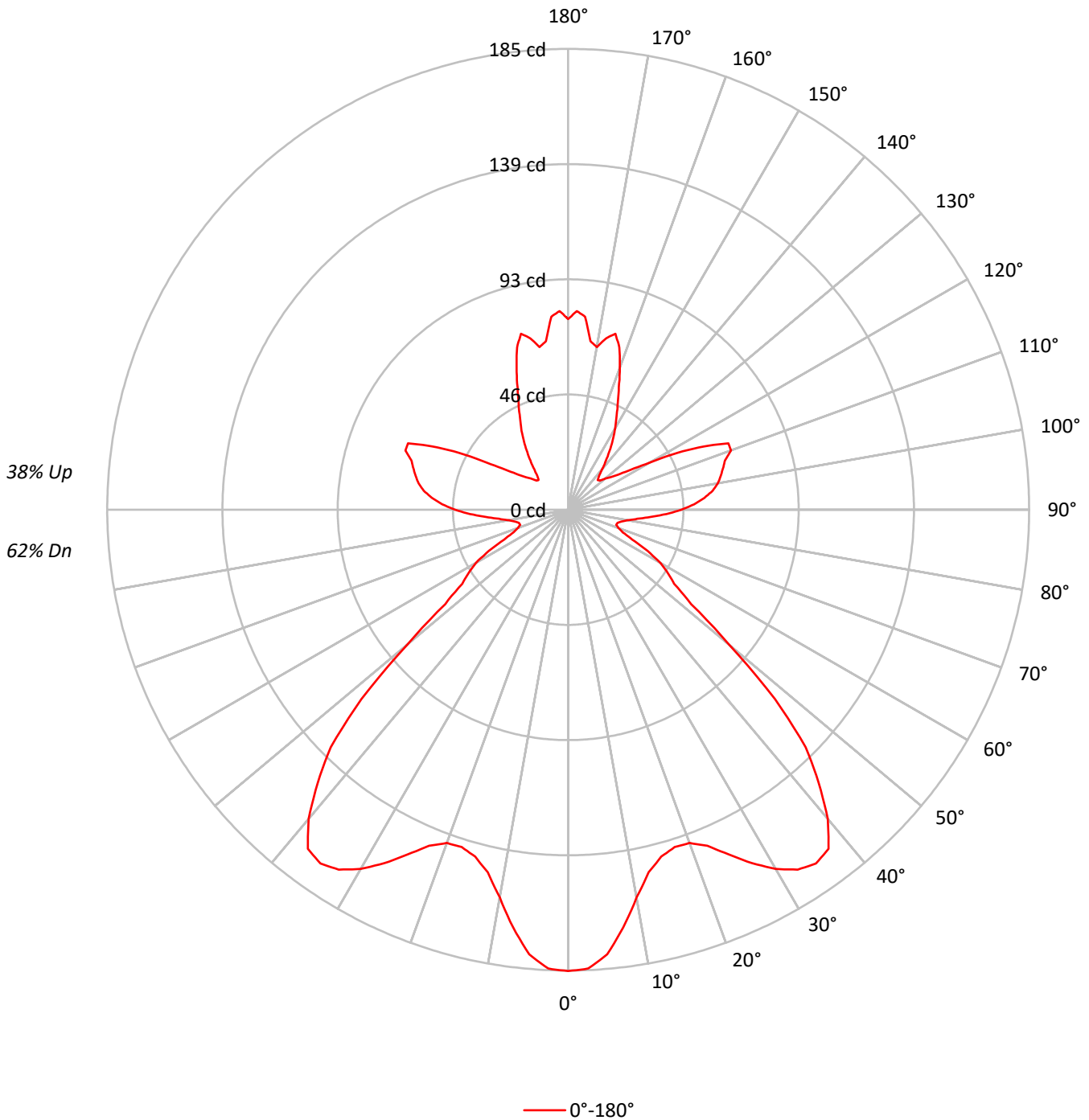
Lumens per Lamp: N/A
Luminaire Lumens: 764.3 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.44 / 1.43
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.17')
CIE Type: Semi-Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0794
Voltage Rise (V): NR
Power Factor: 0.8149
Total Harmonic Distortion (THDi): 70.6
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.9
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	110	110	110	110	103	103	103	103	90	90	90		78	78	78		67	67	67	62
1	100	95	90	87	93	89	85	82	78	75	72		67	65	63		58	57	55	50
2	91	83	77	71	85	78	72	68	69	64	60		60	56	54		52	49	47	43
3	83	74	66	60	78	69	62	57	61	56	51		53	49	46		46	43	40	37
4	77	65	57	51	71	62	54	49	54	49	44		48	43	40		42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38		43	38	35		38	34	31	28
6	65	53	44	39	61	50	42	37	44	38	34		39	34	30		34	30	27	25
7	60	48	40	34	56	45	38	32	40	34	30		36	31	27		31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26		33	28	24		29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24		30	25	22		26	23	20	18
10	49	36	29	24	46	34	28	23	31	25	21		28	23	20		24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1865
5°	1630
10°	1320
15°	1121
20°	1043
25°	1064
30°	1116
35°	1127
40°	1029
45°	844
50°	526
55°	323
60°	269
65°	181
70°	141
75°	139
80°	171
85°	247

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 844 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.4	2.1
10°-20°	41.3	5.4
20°-30°	71.3	9.3
30°-40°	106.9	14.0
40°-50°	99.8	13.1
50°-60°	50.2	6.6
60°-70°	29.6	3.9
70°-80°	22.6	3.0
80°-90°	37.0	4.8
90°-100°	59.2	7.7
100°-110°	68.3	8.9
110°-120°	58.0	7.6
120°-130°	23.5	3.1
130°-140°	14.0	1.8
140°-150°	18.1	2.4
150°-160°	21.8	2.9
160°-170°	19.4	2.5
170°-180°	6.9	0.9
0°-30°	129.0	16.9
0°-40°	235.8	30.9
0°-60°	385.8	50.5
0°-90°	475.0	62.2
90°-120°	185.5	24.3
90°-150°	241.1	31.6
90°-180°	289.0	37.8
0°-180°	764.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	185	
5°	179	16
15°	144	41
25°	153	71
35°	173	107
45°	135	100
55°	52	50
65°	28	30
75°	20	23
85°	33	25
90°	45	25
95°	55	46
105°	64	68
115°	60	58
125°	24	23
135°	17	14
145°	29	18
155°	47	22
165°	73	19
175°	78	7
180°	76	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	185.2
2.5°	184.4
5°	179.2
7.5°	169.2
10°	158.1
12.5°	149.1
15°	144.2
17.5°	142.0
20°	142.4
22.5°	146.0
25°	152.7
27.5°	160.0
30°	166.5
32.5°	171.3
35°	173.4
37.5°	171.6
40°	162.0
42.5°	148.9
45°	134.8
47.5°	112.6
50°	84.5
52.5°	62.2
55°	51.9
57.5°	47.5
60°	42.8
62.5°	35.9
65°	28.3
67.5°	23.7
70°	21.5
72.5°	20.2
75°	20.5
77.5°	21.9
80°	24.2
82.5°	28.0
85°	33.2
87.5°	39.4
90°	45.4
92.5°	50.6
95°	54.9
97.5°	58.5
100°	61.0
102.5°	62.7
105°	64.3
107.5°	66.0
110°	69.5



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	69.6
115°	60.2
117.5°	49.4
120°	37.7
122.5°	29.7
125°	24.4
127.5°	21.3
130°	19.4
132.5°	17.3
135°	16.8
137.5°	18.2
140°	21.2
142.5°	24.9
145°	29.1
147.5°	33.4
150°	37.7
152.5°	41.9
155°	47.1
157.5°	53.1
160°	60.6
162.5°	68.3
165°	73.1
167.5°	70.5
170°	66.3
172.5°	68.2
175°	77.8
177.5°	79.8
180°	76.5

(END OF REPORT)