

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: G2-2210-802-6

Luminaire Tested: PRLX-411-FIL-120-CL-RHL-TFWHST-DW-WH

Test Date: 1/9/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-6
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 1/9/2023
Issue Date: 1/9/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-411-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

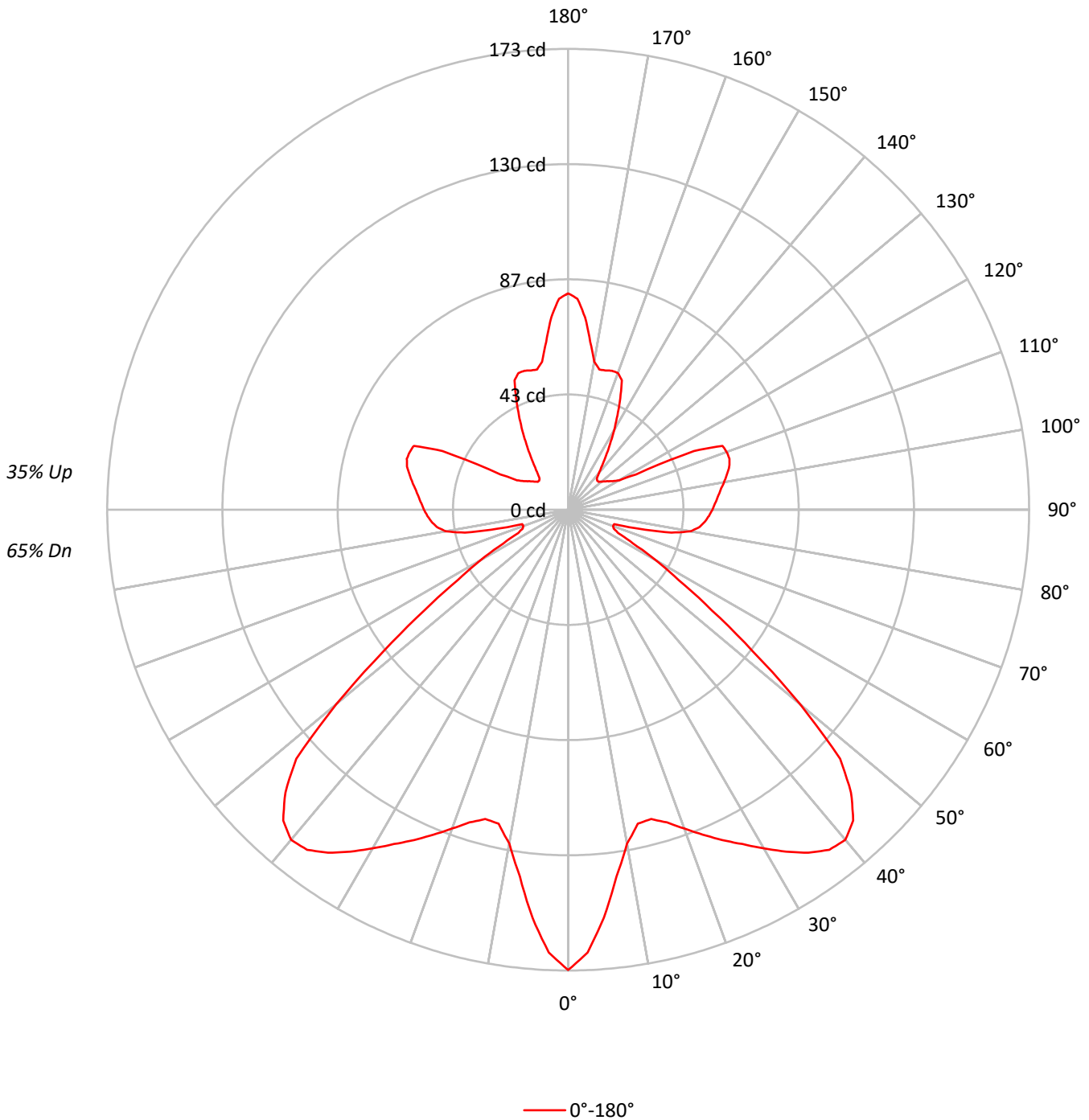
Lumens per Lamp: N/A
Luminaire Lumens: 756.8 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.4 / 1.54
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.17')
CIE Type: Semi-Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0794
Voltage Rise (V): NR
Power Factor: 0.8152
Total Harmonic Distortion (THDi): 70.6%
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	0
RCR																		
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	65
1	99	94	89	85	93	88	84	80	78	74	71	68	65	63	59	57	55	51
2	90	82	75	69	84	77	71	66	68	63	59	60	56	53	52	49	46	43
3	82	72	64	58	77	68	61	55	60	54	50	53	48	45	46	43	40	36
4	76	64	56	49	71	60	53	47	54	47	43	47	42	38	41	37	34	31
5	69	57	48	42	65	54	46	40	48	42	37	42	37	33	37	33	30	27
6	64	51	43	36	60	48	41	35	43	37	32	38	33	29	34	29	26	23
7	59	46	38	32	55	44	36	31	39	33	28	35	30	26	31	26	23	21
8	55	42	34	28	51	40	32	27	36	29	25	32	26	23	28	24	21	18
9	51	38	30	25	48	36	29	24	33	26	22	29	24	20	26	22	18	16
10	48	35	27	22	45	33	26	21	30	24	20	27	22	18	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1740
5°	1399
10°	1063
15°	934
20°	933
25°	954
30°	984
35°	1022
40°	1028
45°	940
50°	706
55°	410
60°	239
65°	132
70°	117
75°	187
80°	329
85°	383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 940 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.8	1.8
10°-20°	34.8	4.6
20°-30°	63.6	8.4
30°-40°	98.3	13.0
40°-50°	112.7	14.9
50°-60°	61.7	8.2
60°-70°	23.4	3.1
70°-80°	31.2	4.1
80°-90°	55.8	7.4
90°-100°	61.7	8.1
100°-110°	65.7	8.7
110°-120°	46.5	6.1
120°-130°	16.9	2.2
130°-140°	12.4	1.6
140°-150°	15.6	2.1
150°-160°	20.9	2.8
160°-170°	15.5	2.0
170°-180°	6.4	0.8
0°-30°	112.3	14.8
0°-40°	210.5	27.8
0°-60°	384.9	50.9
0°-90°	495.3	65.4
90°-120°	173.9	23.0
90°-150°	218.8	28.9
90°-180°	262.0	34.6
0°-180°	756.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	173	
5°	154	14
15°	120	35
25°	137	64
35°	157	98
45°	150	113
55°	66	62
65°	21	23
75°	28	31
85°	52	41
90°	54	30
95°	56	47
105°	63	66
115°	52	47
125°	19	17
135°	15	12
145°	25	16
155°	46	21
165°	54	15
175°	72	6
180°	81	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	172.8
2.5°	166.4
5°	153.8
7.5°	138.9
10°	127.3
12.5°	120.7
15°	120.2
17.5°	123.1
20°	127.4
22.5°	132.0
25°	136.8
27.5°	141.5
30°	146.8
32.5°	152.2
35°	157.2
37.5°	160.9
40°	161.8
42.5°	158.3
45°	150.1
47.5°	138.4
50°	113.5
52.5°	87.3
55°	65.8
57.5°	49.1
60°	38.1
62.5°	27.4
65°	20.7
67.5°	18.5
70°	17.9
72.5°	18.1
75°	27.6
77.5°	39.7
80°	46.6
82.5°	49.7
85°	51.5
87.5°	52.9
90°	54.1
92.5°	55.2
95°	56.4
97.5°	57.7
100°	59.4
102.5°	61.0
105°	62.6
107.5°	63.5
110°	63.3



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	62.7
115°	52.1
117.5°	28.7
120°	22.1
122.5°	19.9
125°	18.6
127.5°	17.5
130°	16.4
132.5°	15.5
135°	15.4
137.5°	15.9
140°	17.9
142.5°	20.8
145°	24.6
147.5°	29.2
150°	34.4
152.5°	40.0
155°	46.2
157.5°	52.6
160°	54.6
162.5°	54.7
165°	54.1
167.5°	53.9
170°	56.4
172.5°	63.5
175°	72.5
177.5°	79.3
180°	81.2

(END OF REPORT)