

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: G2-2210-802-16

Luminaire Tested: PRLX-413-FR-120-CL-RHL-TFWHST-DW-WH

Test Date: 1/9/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-16
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-413-FR-120-CL-RHL-TFWHST-DW-WH
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, CLEAR (TRANSLUCENT) 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

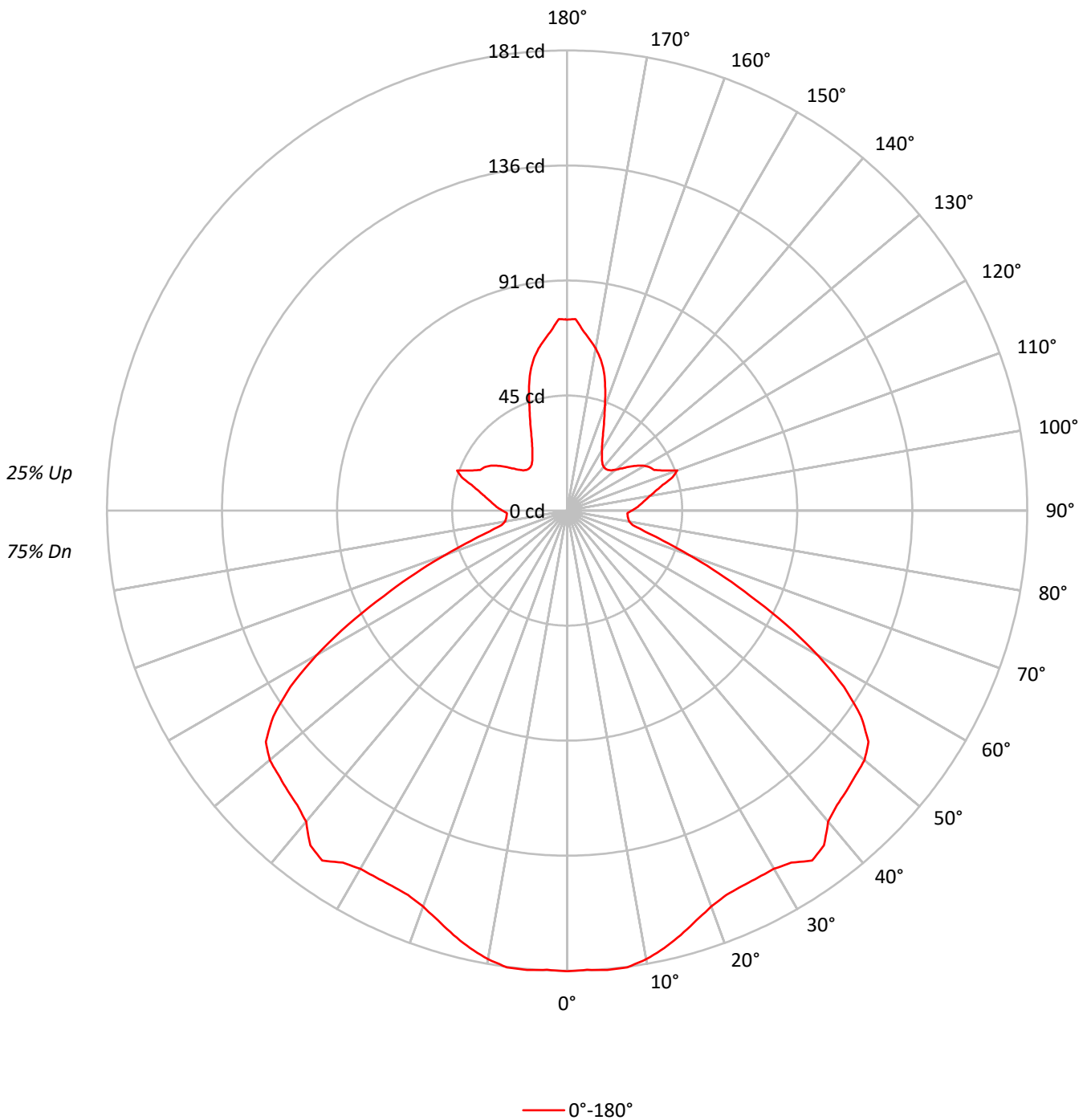
Lumens per Lamp: N/A
Luminaire Lumens: 841.2 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.42 / 1.59
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 1')
CIE Type: Semi-Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (Ain): 0.0685
Voltage Rise (V): NR
Power Factor: 0.9522
Total Harmonic Distortion (THDi): 23.7%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.5
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	113	113	113	113	108	108	108	108	97	97	97		88	88	88		79	79	79	75
1	102	98	93	89	97	93	89	85	84	81	78		76	74	71		69	67	65	61
2	93	85	78	72	88	81	74	69	73	68	64		66	62	59		60	57	54	50
3	84	74	66	59	80	70	63	57	64	58	53		58	53	49		52	48	45	42
4	77	65	56	50	73	62	54	48	56	50	45		51	46	41		46	42	38	35
5	70	58	49	42	66	55	47	41	50	43	38		46	40	35		41	37	33	30
6	65	51	43	36	61	49	41	35	45	38	33		41	35	31		37	32	29	26
7	60	46	38	32	56	44	36	31	41	34	29		37	31	27		34	29	25	23
8	55	42	34	28	52	40	32	27	37	30	25		34	28	24		31	26	22	20
9	51	38	30	25	49	37	29	24	34	27	23		31	25	21		28	23	20	18
10	48	35	27	22	46	34	26	21	31	25	20		28	23	19		26	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	991
5°	930
10°	871
15°	805
20°	746
25°	715
30°	701
35°	717
40°	681
45°	667
50°	663
55°	626
60°	521
65°	378
70°	254
75°	166
80°	140
85°	147

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 667 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.3	2.1
10°-20°	48.7	5.8
20°-30°	75.6	9.0
30°-40°	103.6	12.3
40°-50°	120.5	14.3
50°-60°	123.7	14.7
60°-70°	79.9	9.5
70°-80°	35.7	4.2
80°-90°	26.4	3.1
90°-100°	31.8	3.8
100°-110°	41.6	4.9
110°-120°	38.8	4.6
120°-130°	27.1	3.2
130°-140°	17.8	2.1
140°-150°	15.2	1.8
150°-160°	15.6	1.9
160°-170°	15.4	1.8
170°-180°	6.6	0.8
0°-30°	141.6	16.8
0°-40°	245.1	29.1
0°-60°	489.3	58.2
0°-90°	631.4	75.1
90°-120°	112.2	13.3
90°-150°	172.3	20.5
90°-180°	210.0	25.0
0°-180°	841.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	181	
5°	181	17
15°	173	49
25°	163	76
35°	168	104
45°	156	121
55°	141	124
65°	80	80
75°	32	36
85°	24	20
90°	25	14
95°	29	25
105°	39	42
115°	38	39
125°	30	27
135°	23	18
145°	24	15
155°	33	16
165°	56	15
175°	71	7
180°	75	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	181.2
2.5°	180.8
5°	181.4
7.5°	181.2
10°	179.2
12.5°	176.3
15°	172.8
17.5°	169.0
20°	165.7
22.5°	163.6
25°	162.9
27.5°	162.7
30°	162.7
32.5°	164.2
35°	168.0
37.5°	166.0
40°	159.7
42.5°	157.1
45°	155.6
47.5°	154.0
50°	152.7
52.5°	149.4
55°	141.1
57.5°	129.1
60°	114.0
62.5°	97.0
65°	79.6
67.5°	64.5
70°	51.0
72.5°	39.7
75°	31.5
77.5°	26.3
80°	24.8
82.5°	24.2
85°	23.9
87.5°	23.7
90°	25.4
92.5°	27.4
95°	29.1
97.5°	30.9
100°	33.0
102.5°	35.6
105°	38.9
107.5°	43.4
110°	46.1



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	41.1
115°	37.7
117.5°	36.8
120°	35.2
122.5°	32.9
125°	30.1
127.5°	27.3
130°	25.0
132.5°	23.4
135°	22.6
137.5°	22.3
140°	22.4
142.5°	22.9
145°	23.9
147.5°	25.4
150°	27.3
152.5°	29.8
155°	33.4
157.5°	37.9
160°	43.3
162.5°	49.9
165°	56.2
167.5°	61.0
170°	64.7
172.5°	67.9
175°	71.1
177.5°	75.4
180°	75.1

(END OF REPORT)