

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: G2-2210-802-11

Luminaire Tested: PRLX-403-FR-120-CL-RHL-TFWHST-DW-WH

Test Date: 12/12/22



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-11
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 12/12/22
Issue Date: 12/12/22
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-403-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 LAMP
FROSTED BULB - 60W EQUIVALENT 929002036204 8.8A19/PER/930/P/E26/DIM
6/1FB T20. PHILIPS
Ballast/Driver: INTEGRAL TO LAMP

Summary

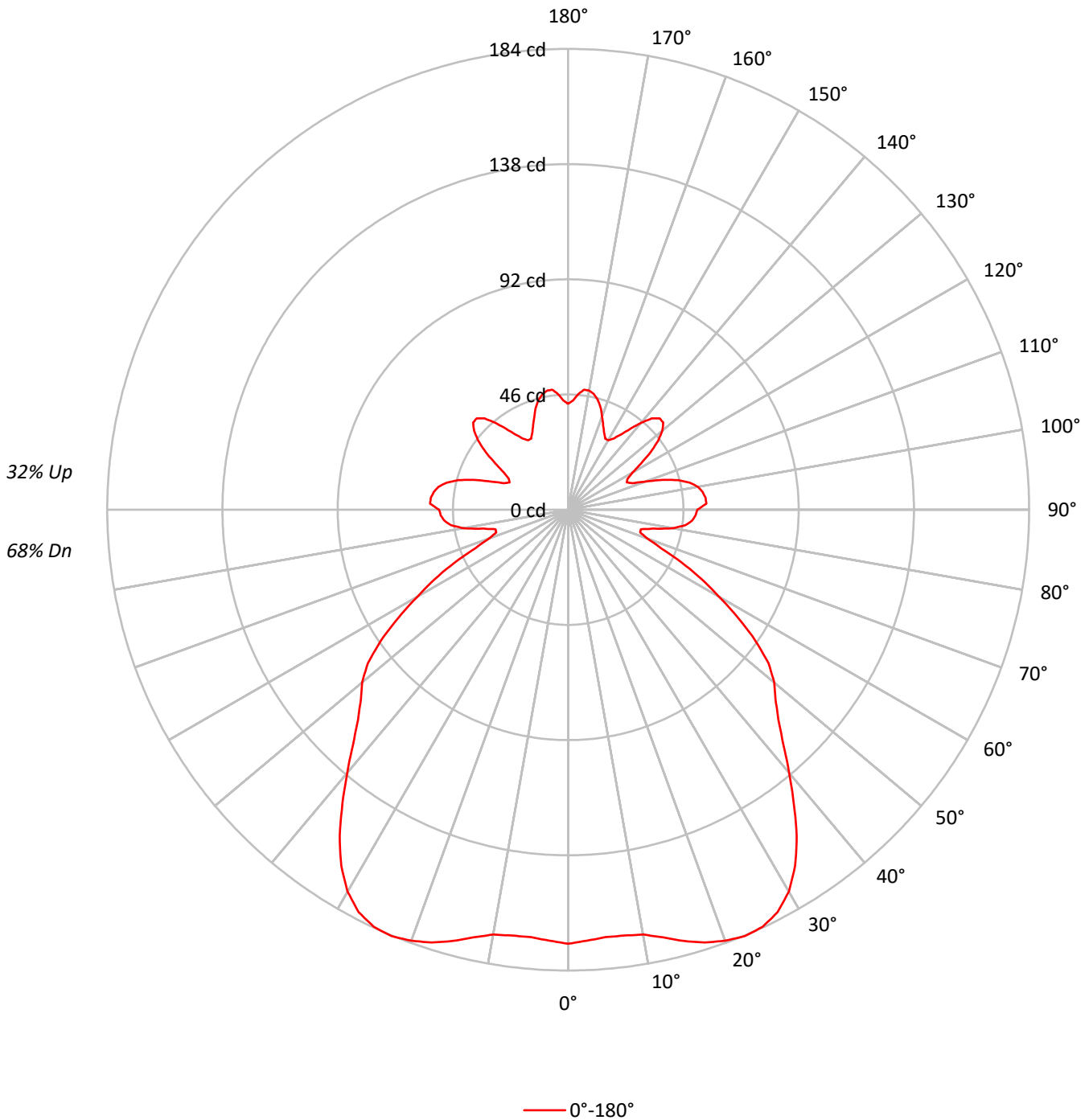
Lumens per Lamp: N/A
Luminaire Lumens: 825.9 lumens
Efficiency: N/A
Efficacy: 825.9 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.41 / 1.39
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.92')
CIE Type: Semi-Direct

Input Watts (W): 1
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0678
Voltage Rise (V): NR
Power Factor: 0.9497
Total Harmonic Distortion (THDi): 24.4%
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	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68
1	100	95	90	86	94	89	85	81	79	76	73	70	67	65	61	59	58	53
2	91	83	76	70	85	78	72	67	69	64	60	61	57	54	54	51	48	45
3	83	73	65	58	78	69	61	56	61	55	51	54	50	46	48	44	41	38
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	43	39	36	32
5	70	58	49	42	66	55	47	41	49	42	37	44	38	34	39	34	31	28
6	64	52	43	37	61	49	41	36	44	38	33	39	34	30	35	31	27	25
7	60	47	38	32	56	44	37	31	40	34	29	36	31	27	32	28	24	22
8	55	43	34	29	52	40	33	28	37	30	26	33	28	24	29	25	22	20
9	52	39	31	26	49	37	30	25	34	27	23	30	25	21	27	23	20	18
10	48	36	28	23	46	34	27	22	31	25	21	28	23	19	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5344
5°	4598
10°	4120
15°	3875
20°	3670
25°	3441
30°	3118
35°	2689
40°	2237
45°	1880
50°	1668
55°	1402
60°	1063
65°	766
70°	520
75°	474
80°	689
85°	837

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1880 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.4	2.0
10°-20°	50.6	6.1
20°-30°	84.2	10.2
30°-40°	98.8	12.0
40°-50°	92.6	11.2
50°-60°	80.6	9.8
60°-70°	49.8	6.0
70°-80°	35.2	4.3
80°-90°	53.1	6.4
90°-100°	59.0	7.1
100°-110°	47.0	5.7
110°-120°	27.6	3.3
120°-130°	35.5	4.3
130°-140°	38.7	4.7
140°-150°	23.6	2.9
150°-160°	15.9	1.9
160°-170°	12.6	1.5
170°-180°	4.5	0.5
0°-30°	151.3	18.3
0°-40°	250.1	30.3
0°-60°	423.3	51.3
0°-90°	561.4	68.0
90°-120°	133.6	16.2
90°-150°	231.5	28.0
90°-180°	264.0	32.0
0°-180°	825.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	173	
5°	171	16
15°	178	51
25°	184	84
35°	159	99
45°	119	93
55°	91	81
65°	50	50
75°	30	35
85°	50	39
90°	52	29
95°	55	44
105°	46	47
115°	26	28
125°	40	36
135°	52	39
145°	37	24
155°	34	16
165°	46	13
175°	46	4
180°	42	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	173.3
2.5°	172.2
5°	171.3
7.5°	171.5
10°	172.2
12.5°	174.9
15°	178.3
17.5°	181.2
20°	183.1
22.5°	184.3
25°	183.7
27.5°	181.1
30°	176.1
32.5°	168.6
35°	159.0
37.5°	148.0
40°	137.2
42.5°	127.0
45°	118.6
47.5°	112.2
50°	107.3
52.5°	100.8
55°	91.3
57.5°	80.5
60°	69.5
62.5°	60.1
65°	49.9
67.5°	40.0
70°	33.5
72.5°	30.1
75°	30.0
77.5°	34.9
80°	42.4
82.5°	47.2
85°	49.7
87.5°	50.9
90°	51.5
92.5°	55.2
95°	55.0
97.5°	54.1
100°	52.6
102.5°	49.7
105°	45.5
107.5°	39.6
110°	32.6



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	27.6
115°	25.8
117.5°	26.7
120°	29.7
122.5°	34.5
125°	40.2
127.5°	45.2
130°	49.0
132.5°	51.5
135°	51.6
137.5°	49.4
140°	45.3
142.5°	40.6
145°	36.6
147.5°	33.6
150°	32.0
152.5°	32.0
155°	33.9
157.5°	36.5
160°	39.6
162.5°	42.9
165°	45.5
167.5°	47.3
170°	48.3
172.5°	48.3
175°	46.3
177.5°	43.6
180°	42.3

(END OF REPORT)