

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: G2-2210-802-12

Luminaire Tested: PRLX-405-FR-120-CL-RHL-TFWHST-DW-WH

Test Date: 12/13/22



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-12
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 12/13/22
Issue Date: 12/13/22
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-405-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

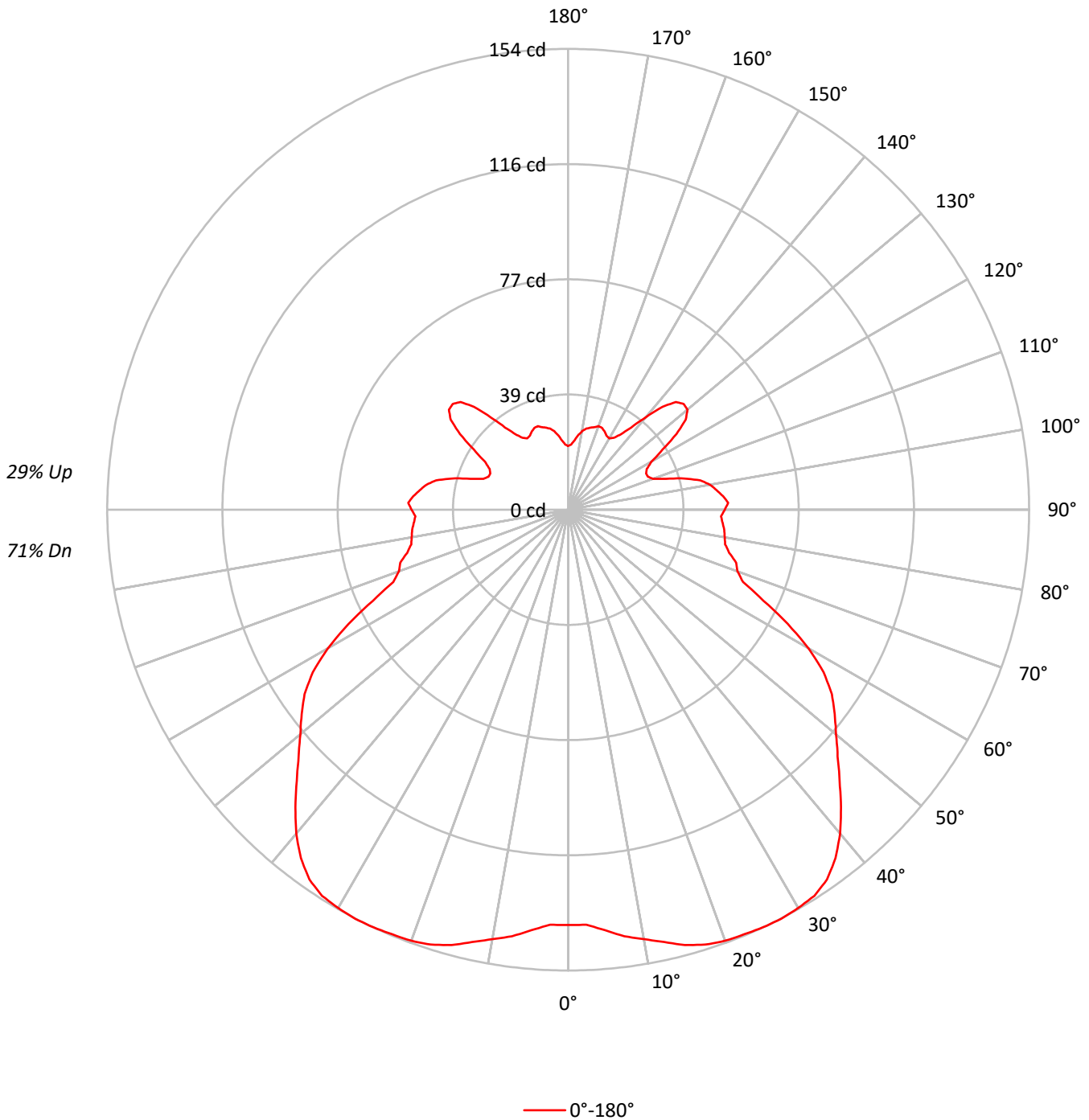
Lumens per Lamp: N/A
Luminaire Lumens: 852.9 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.59 / 1.59 / 1.6
Luminous Opening: Vertical Cylinder (Dia: 0.92' x H: 0.67')
CIE Type: Semi-Direct

Input Watts (W): 7.6
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0682
Voltage Rise (V): NR
Power Factor: 0.9511
Total Harmonic Distortion (THDi): 23.9
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.0
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	100	94	89	85	94	89	85	81	79	76	73	71	68	65	62	60	58	54
2	90	81	74	67	85	77	70	64	68	63	58	61	57	53	54	50	47	44
3	82	71	62	55	77	67	59	53	60	53	48	53	48	44	47	43	39	36
4	74	62	53	46	70	59	51	44	53	46	41	47	41	37	41	37	33	30
5	68	55	46	39	64	52	44	38	47	40	35	42	36	32	37	32	29	26
6	63	49	40	34	59	47	39	32	42	35	30	38	32	27	33	29	25	22
7	58	44	36	29	54	42	34	28	38	31	26	34	28	24	30	26	22	19
8	54	40	32	26	51	38	30	25	35	28	23	31	25	21	28	23	19	17
9	50	37	29	23	47	35	27	22	32	25	21	29	23	19	26	21	17	15
10	47	34	26	21	44	32	25	20	29	23	18	26	21	17	24	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2264
5°	2136
10°	2074
15°	2037
20°	1990
25°	1936
30°	1886
35°	1822
40°	1693
45°	1535
50°	1409
55°	1316
60°	1163
65°	931
70°	810
75°	788
80°	798
85°	837

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1535 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.6	1.6
10°-20°	42.7	5.0
20°-30°	71.2	8.3
30°-40°	93.8	11.0
40°-50°	99.3	11.6
50°-60°	95.3	11.2
60°-70°	72.8	8.5
70°-80°	59.4	7.0
80°-90°	56.8	6.7
90°-100°	56.1	6.6
100°-110°	42.1	4.9
110°-120°	29.3	3.4
120°-130°	38.6	4.5
130°-140°	38.1	4.5
140°-150°	20.2	2.4
150°-160°	13.2	1.6
160°-170°	8.1	0.9
170°-180°	2.3	0.3
0°-30°	127.5	14.9
0°-40°	221.3	25.9
0°-60°	415.8	48.8
0°-90°	604.9	70.9
90°-120°	127.5	14.9
90°-150°	224.4	26.3
90°-180°	248.0	29.1
0°-180°	852.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	139	
5°	141	14
15°	151	43
25°	154	71
35°	151	94
45°	128	99
55°	108	95
65°	72	73
75°	56	59
85°	52	43
90°	52	29
95°	52	42
105°	40	42
115°	29	29
125°	44	39
135°	51	38
145°	31	20
155°	29	13
165°	28	8
175°	23	2
180°	21	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	138.8
2.5°	138.8
5°	141.0
7.5°	143.8
10°	145.7
12.5°	148.0
15°	150.6
17.5°	152.4
20°	153.3
22.5°	153.6
25°	154.0
27.5°	154.1
30°	153.7
32.5°	153.0
35°	150.8
37.5°	146.7
40°	141.3
42.5°	134.9
45°	128.2
47.5°	122.1
50°	116.8
52.5°	112.2
55°	107.5
57.5°	101.2
60°	92.8
62.5°	82.7
65°	72.0
67.5°	63.2
70°	60.2
72.5°	58.8
75°	55.7
77.5°	53.7
80°	53.1
82.5°	52.6
85°	51.8
87.5°	51.1
90°	52.3
92.5°	53.5
95°	51.9
97.5°	50.0
100°	48.1
102.5°	45.2
105°	40.3
107.5°	34.3
110°	30.1



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	28.8
115°	28.7
117.5°	29.6
120°	32.1
122.5°	37.4
125°	44.1
127.5°	49.5
130°	52.0
132.5°	52.3
135°	50.9
137.5°	46.6
140°	40.3
142.5°	34.6
145°	30.7
147.5°	28.5
150°	27.5
152.5°	27.8
155°	28.8
157.5°	29.6
160°	29.7
162.5°	28.9
165°	28.4
167.5°	27.7
170°	26.6
172.5°	25.0
175°	23.1
177.5°	21.8
180°	21.3

(END OF REPORT)